

UNIVERSITY OF LOUISIANA AT LAFAYETTE

PRIMATE RESEARCH LAB  
SECOND FLOOR RENOVATION 2020

4401 W. ADMIRAL DOYLE DR.  
NEW IBERIA, LA 70560

PROJECT DIRECTORY:

OWNER:	UNIVERSITY OF LOUISIANA AT LAFAYETTE 104 E. UNIVERSITY CIRCLE LAFAYETTE, LA 70503 (337) 482-2001
OWNER CONTACT / PROJECT ENGINEER:	PHILLIP J. DUPLECHIN NEW IBERIA RESEARCH CENTER 4401 W. ADMIRAL DOYLE DRIVE NEW IBERIA, LA 70560 WORK CELL: (337) 224-6825 HOME CELL: (337) 254-6868
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PROJECT ARCHITECT:	HUGH STEVENS
MECHANICAL ENGINEER:	ITTER CONSULTING ENGINEERS 2014 WEST PINHOOK, SUITE 200 LAFAYETTE, LA 70508 (337) 484-8448
PROJECT ENGINEER:	ANDREA MANCEAUX
ELECTRICAL ENGINEER:	THOMASSEE AND ASSOCIATES 204 WINDCHESTER DR. #2B LAFAYETTE, LA 70506 (337) 481-4665
PROJECT ENGINEER:	ANGIE T. DORE

GENERAL NOTES:

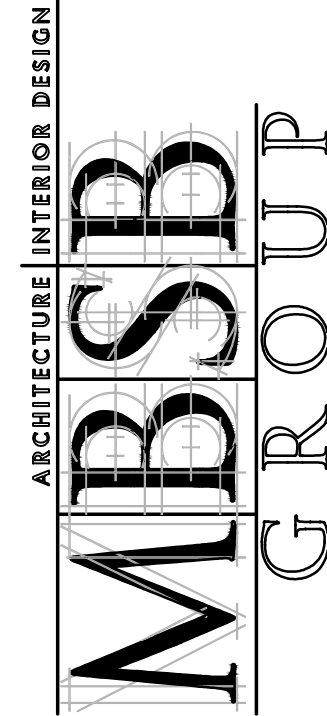
- A. CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN CONDITION. ALL TRASH AND DEBRIS SHALL BE PLACED IN TRASH CONTAINERS AND/OR DUMPSTER AFTER EACH WORK DAY. CLEAN ALL INTERIOR SURFACES AT THE END OF CONSTRUCTION.
- B. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE USER AGENCY AT THE EXPENSE OF THE GENERAL CONTRACTOR.
- ALTERNATES:
- ALTERNATE #1:
- ITEM 1: MILLWORK IN BREAK AREA 208.
  - ITEM 2: PROVIDE RESILIENT LINOLEUM SHEET FLOORING AND COVE BASE IN CORRIDOR 200, 200A, 227 AND LABS 201, 202, 203, 204, 207, 216, 217, 218, 221. PROVIDE EPOXY RESIN FLOORING AND BASE IN WORK STATIONS 209A AND 209B; BREAK ROOM 208; CORRIDOR 212, AND OFFICES 210, 211, 213, 214, AND 215.
- ALTERNATE #2:
- FOR LIGHTS FURNISHED AND INSTALLED BY CONTRACTOR AS IDENTIFIED ON ELECTRICAL DRAWINGS & SPECIFICATIONS.
- ALTERNATE #3:
- ALL WORK IN LOCKER SHOWER 225 AND 226.



1 SITE PLAN  
NOT TO SCALE

INDEX TO DRAWINGS

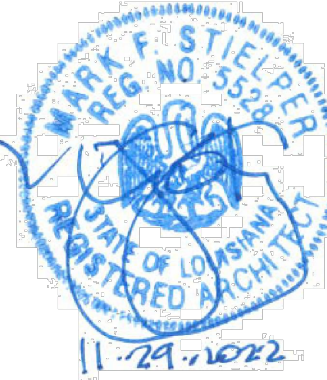
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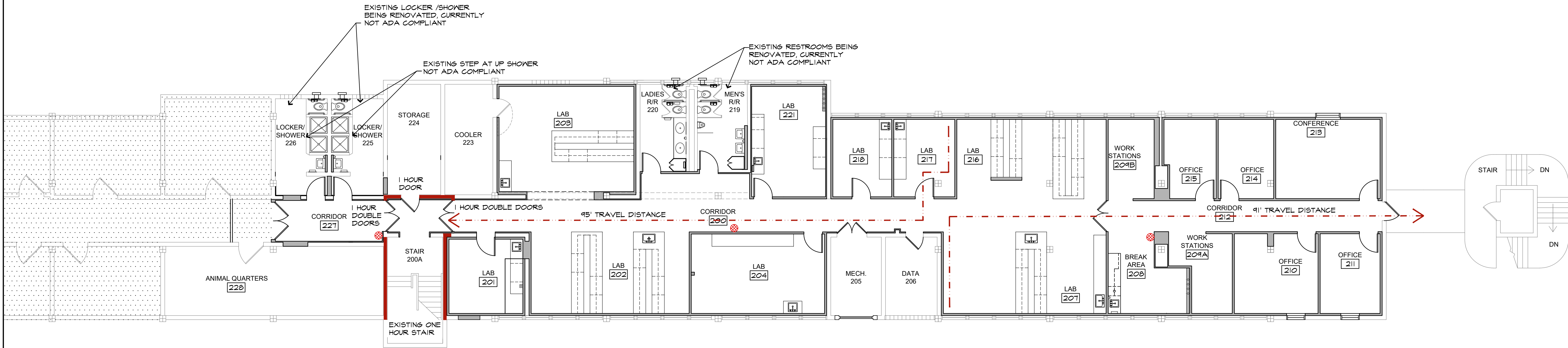
PRIMATE RESEARCH LAB  
SECOND FLOOR RENOVATION 2020  
UL PHYSICAL PLANT  
THE UNIVERSITY OF LOUISIANA AT LAFAYETTE  
P.O. BOX 4320  
LAFAYETTE, LOUISIANA 70504

project no. 2020.007.00  
date OCTOBER 2022  
designed by HS  
drawn by KB/SM  
checked by HS  
revised



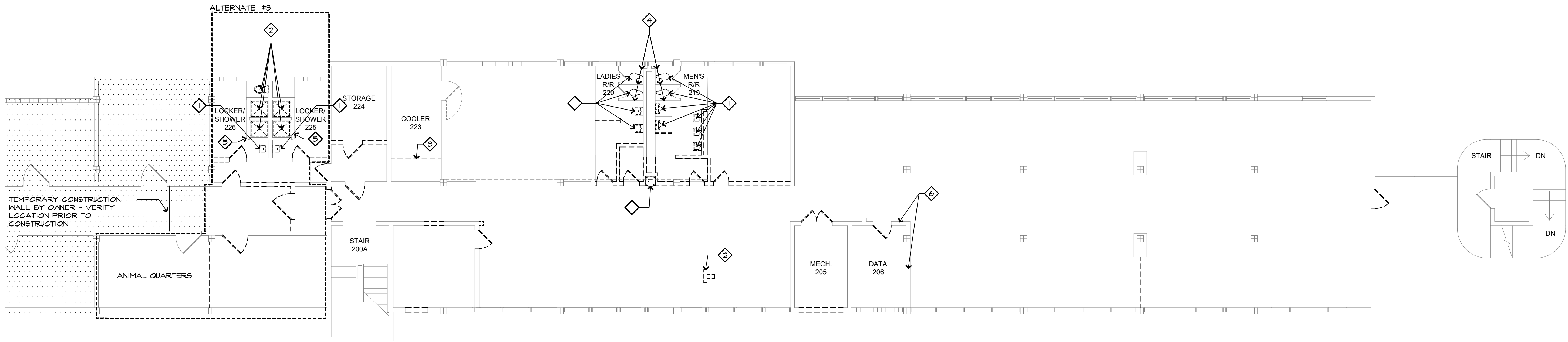
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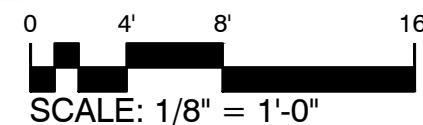


1 LIFE SAFETY PLAN - SECOND FLOOR  
SCALE: 1/8"=1'-0"

LIFE SAFETY LEGEND	
CONSTRUCTION TYPE:	II B/TYP E II(000)
OCCUPANCY (EXISTING USE)	F-2, SPECIAL-PURPOSE INDUSTRIAL (PRIMATE LAB)
NEW WALL HUNG EXTINGUISHER	
TOTAL BUILDING SQUARE FOOTAGE:	8,805 SF (TOTAL FIRST FLOOR) 8,805 SF (TOTAL SECOND FLOOR)
SIZE OF RENOVATION	6,545 SF (PARTIAL 2ND FLOOR PARTIAL)
OCCUPANT LOAD:	NFPA PER OWNER ASSESSMENT FOR SPECIAL PURPOSE INDUSTRIAL: TOTAL RENOVATED LAB AREA - 13 OCCUPANTS TOTAL SECOND FLOOR - 15 OCCUPANTS
ONE HOUR RATED FIRE BARRIER:	
TRAVEL DISTANCE PATH:	
SPRINKLER SYSTEM:	NOT SPRINKLERED
EXISTING AREA, NOT IN CONTRACT	
APPLICABLE CODES 2015 LIFE SAFETY CODE 2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL PLUMBING CODE 2014 NATIONAL ELECTRICAL CODE 2015 INTERNATIONAL FUEL GAS CODE 2015 INTERNATIONAL MECHANICAL CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	
NOTE: RENOVATION WILL NOT EXCEED 50% THE VALUE OF THE EXISTING BUILDING.	



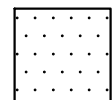
1 DEMOLITION PLAN - SECOND FLOOR  
SCALE: 1/8"=1'-0"



GENERAL DEMOLITION NOTES

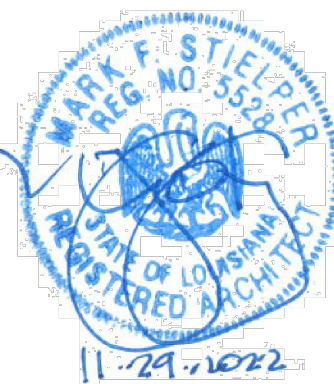
1. THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO COMPLETE DEMOLITION, REMOVAL AND/ OR SALVAGE ITEMS SHOWN ON THE DRAWINGS.
2. THE GENERAL CONTRACTOR SHALL PROTECT THE OWNER'S PROPERTY INCLUDING, BUT NOT LIMITED TO EQUIPMENT, FLOORS, CEILINGS, TOILETS, DOORS, FRAMES AND ELECTRICAL EQUIPMENT.
3. ANY DAMAGE THAT OCCURS AS A RESULT OF THE WORK SHALL BE REPAIRED TO A LIKE NEW CONDITION @ G.C. EXPENSE
4. EXACT DIMENSIONS OF DEMOLITION AND RECONSTRUCTION SHALL BE COORDINATED ON JOB PRIOR TO BEGINNING DEMOLITION WORK.
5. OWNER HAS FIRST RIGHT OR REFUSAL TO ALL DEMOLISHED ITEMS. ITEMS OF SALVAGEABLE VALUE TO THE OWNER SUCH AS BUT NOT LIMITED TO GRAB BARS, FIRE EXTINGUISHERS, ETC. SHALL BE REMOVED AND PROPERLY STORED ON SITE AS THE WORK PROGRESSES. COORDINATE, SALVAGE AND STORAGE WITH USER.
6. REMOVE ALL EXISTING SIGNAGE, WALL HANGERS/ INSERTS, DECALS, HANDRAILS, & ADHESIVES FROM EXISTING WALLS, RESTROOM ACCESSORIES, AND DOORS. PATCH WALLS, PRIME & PAINT AS REQ'D.
7. CONTRACTOR IS TO USE ELECTRIC SAW FOR ANY SAW CUTTING REQUIRED IN THE PROJECT.
8. THE CONTRACTOR SHALL IN DEMOLISHED WALLS PROTECT REMAINING UTILITIES.
9. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
10. CONDUCT DEMOLITION OPERATIONS AND THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
11. ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT STRUCTURE, OTHER FACILITIES AND PERSONS IN ACCORDANCE WITH OSHA STANDARDS.
12. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AS DIRECTED BY THE OWNER. PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT STRUCTURES BY DEMOLITION OPERATIONS AT NO COST TO THE OWNER.
13. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE CONSTRUCTION TYPE (I.E. WALL TO CEILING, DECK OR FIRE WALLS) OF THE EXISTING WALLS TO BE REMOVED. ALL WALLS SHOWN DASHED SHALL BE REMOVED IN THEIR ENTIRETY.
14. PRIOR TO DEMOLITION, THE CONTRACTOR IS TO NOTIFY THE OWNER/ARCHITECT IN WRITING A MINIMUM OF 2 WEEKS IN ADVANCE OF THE AREAS THAT ARE NEEDED FOR DEMOLITION.
15. PRIOR TO DEMOLITION, THE CONTRACTOR/ARCHITECT/OWNER IS TO WALK THE EXISTING AREA THAT IS TO HAVE DEMOLITION WORK TAKE PLACE TO VERIFY THE EXISTING CONDITION OF THAT AREA.
16. ALL CONDITIONS AND DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND MUST BE FIELD VERIFIED AT THE SITE. UPON COMPLETION OF DEMOLITION, ALL CONDITIONS AND DIMENSIONS ARE TO BE CHECKED FOR VARIANCES. ANY UNNOTED EXISTING CONDITIONS WHICH MAY CONFLICT WITH THE PROPOSED NEW WORK AND MAY REQUIRE MODIFICATION, RELOCATION AND OR REMOVAL SHALL BE IDENTIFIED AND REPORTED TO THE OWNER AND ARCHITECT, IN WRITING, AT ONCE.
17. COORDINATE WHAT PORTIONS OF THE DOORS, HOLLOW METAL FRAMES, AND HARDWARE IS TO BE DEMOLISHED PRIOR TO PROCEEDING WITH DEMOLITION.

DEMOLITION PLAN LEGEND

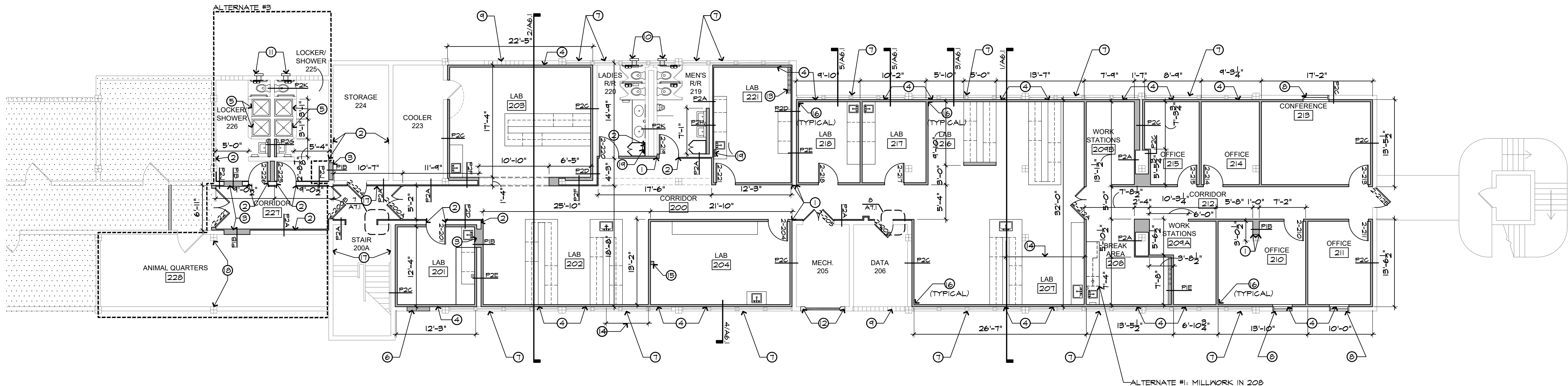
- == = EXISTING WALL, DOOR, PLUMBING FIXTURES, BATHROOM ACCESSORIES, TOILET PARTITIONS, ETC., TO BE REMOVED. THIS INCLUDES ALL RELATED COMPONENTS INCLUDING SUPPORTS, ACCESSORIES, & FINISHES. WALLS ARE TO BE REMOVED TO DECK.
-  EXISTING ANIMAL QUARTERS AREA, NOT IN CONTRACT

DEMOLITION PLAN KEY NOTES

1. REMOVE EXISTING PLUMBING FIXTURE AND CARRIERS IN PREPARATION FOR NEW FIXTURES. OPEN AS SMALL AN OPENING AS POSSIBLE IN EXISTING WALL.
2. REMOVE AND REWORK EXISTING PLUMBING IN THIS AREA. REFER TO PLUMBING SHEETS RE. P1 & P2.
3. REMOVE EXISTING FURRING IN THIS AREA TO ALLOW MECHANICAL CONTRACTOR TO CAP OFF EXISTING DUCTWORK. REPLACE FURRING AND PAINT.
4. REMOVE EXISTING TOILET PARTITIONS.
5. 6" STEP UP AT SHOWER TO REMAIN.
6. WALLS IN THIS LOCATION DO NOT EXTEND TO THE CEILING - DEVELOP A METHOD OF VENTING THIS ROOM WHILE PROTECTING IT FROM DUST DURING DEMOLITION AND CONSTRUCTION. THIS ROOM HAS COMPUTER EQUIPMENT AND SERVES AS A MAJOR HUB FOR THE ENTIRE CAMPUS.







**2 RENOVATION PLAN**  
SCALE: 1/8"=1'-0"

GENERAL NOTES

- CONTRACTOR TO LAY OUT ALL WALLS FOR REVIEW BY ARCHITECT PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO ROUGH FRAMING OF NEW PARTITIONS AND FACE OF EXISTING WALLS UNLESS INDICATED OTHERWISE.
- REPAIR DRYWALL WHERE WALLS HAVE BEEN REMOVED AND ADJUST NEW WALLS AS REQUIRED SO FACE OF NEW WALLS LINE UP WITH FACE OF EXISTING WALLS TO REMAIN.
- MAINTAIN REQUIRED SUPPORT FOR ALL SYSTEMS AS REQUIRED IE: CEILING GRID, CABLES ETC.
- MAINTAIN REQUIRED FIRE RATINGS ON ALL EXISTING IE: WALLS, COLUMNS, STRUCTURAL MEMBERS, FLOOR CEILING ASSEMBLIES ETC.
- CONTRACTOR IS TO PROVIDE THE NECESSARY SAFETY PRECAUTIONS IN AND AROUND THE CONSTRUCTION AREA.

FLOOR PLAN LEGEND

OFFICE	ROOM NAME	DETAIL REFERENCE
101	ROOM NUMBER	DRAWING #/SHEET #
120-A	DOOR REFERENCE	
FURN	FURNITURE - SEE FURNITURE PLANS FOR FURNITURE NO SHOWN ON THIS SHEET	
—	SECTION OF NEW WALL	
EXISTING AREA, NOT IN CONTRACT		
FIRE EXTINGUISHER		

PI — PARTITION TYPE, PI TYP. UNLESS OTHERWISE NOTED RE: 1/A6.1

5'-0" DIMENSION

MULTI-LINE KEYNOTE TEXT

BUILDING SECTION REFERENCE

ARCHITECTURAL PLAN KEY NOTES

- INSTALL PARTITION AS REQUIRED TO ALIGN W/ EXISTING WALL & FLOAT FLUSH.
- PATCH AND PAINT EXISTING WALLS WHERE EXISTING PARTITIONS ARE REMOVED. PAINT CORNER TO CORNER.
- INFILL OPENING WITH GYP. BD ON METAL STUDS TO MATCH ADJACENT WALL - FLOAT FLUSH. SPOT PRIME & ONE COAT OF PAINT FOR DRYWALL. INFILL. FINAL COAT ENTIRE WALL CORNER TO CORNER OR TO NEAREST TERMINATION POINT. PATCH FLOOR AND BASE TO MATCH EXISTING.
- LOW WALL AT EXTERIOR PERIMETER WALL TO RUN ELECTRICAL AND PLUMBING. RE: 3/4.85 / A6.1.
- APPLY EPOXY RESINOUS COATING ON EXISTING CONCRETE FLOOR AND CMU WALLS OF SHOWER.
- ONCE DUCTWORK IS REMOVED (SEE MECH) FILL-IN EXISTING OPENING TO PROVIDE A WATER TIGHT CONDITION AND NEW WORK SHALL BE UNDETECTABLE. RE: 1/A6.1
- EXISTING - RECENTLY REPLACED WINDOWS.
- EXISTING- RECENTLY ADDED WINDOWS.
- EXISTING GLASS BLOCK TO REMAIN.
- REMOVE GLASS FROM EXISTING ALUMINUM WINDOW AND INSTALL GLAZING INFILL PANELS. INSTALL EXHAUST FANS, INDICATED ON MECHANICAL DRAWINGS, IN GLAZING INFILL PANEL. ONCE EXHAUST FAN AND VENT IS IN PLACE, PROVIDE ENCLOSURE WITH STEEL STUDS AND DRYWALL. WORK WITH ARCHITECT IN FIELD TO CREATE THE SMALLEST AREA OF LOWERED CEILING.
- INSTALL THROUGH WALL EXHAUST FANS IN EXISTING WALLS PER M.I. PATCH EXISTING WALL SO WORK IS UNDETECTABLE. REFER TO NOTE 10 FOR ENCLOSURE AROUND EXHAUST FAN AND VENT.
- REMOVE EXISTING SUPPLY DUCT ETC., MODIFY EXISTING OPENING TO ACCOMMODATE INSTALLATION OF NEW OUTSIDE AIR HANDLING UNIT INTAKE LOUVER. RE: MECHANICAL FOR 24" X 12" GRILLE. PATCH EXISTING MATERIALS TO PROVIDE A WATER TIGHT CONDITION AND NEW WORK SHALL BE UNDETECTABLE.
- PROVIDE CHASE USING 6" STUDS.
- COORDINATE PLUMBING ROUGH IN DIMENSIONS WITH OWNER PROVIDED CASEWORK.
- PROVIDE 6" CLEAR CHASE FOR RELOCATED VENT.
- RE: 8/A4.1 FOR TYPICAL INTERSECTION OF NEW WALLS AND GLASS WINDOWS.
- REPAIR HOLES IN EXISTING WALLS AS REQUIRED TO MAINTAIN 1 HR FIRE RATINGS.
- PATCH EXISTING WALL, BASE, DECK AND FLOOR WHERE WALL HAS BEEN REMOVED SO NEW WORK IS UNDETECTABLE. PAINT ENTIRE ROOM.
- PROVIDE A 12" SQUARE METAL ACCESS PANEL FOR INSPECTION AND REPAIR TO EXISTING PLUMBING. EXACT LOCATION TO BE COORDINATED WITH MECHANICAL ENGINEER.

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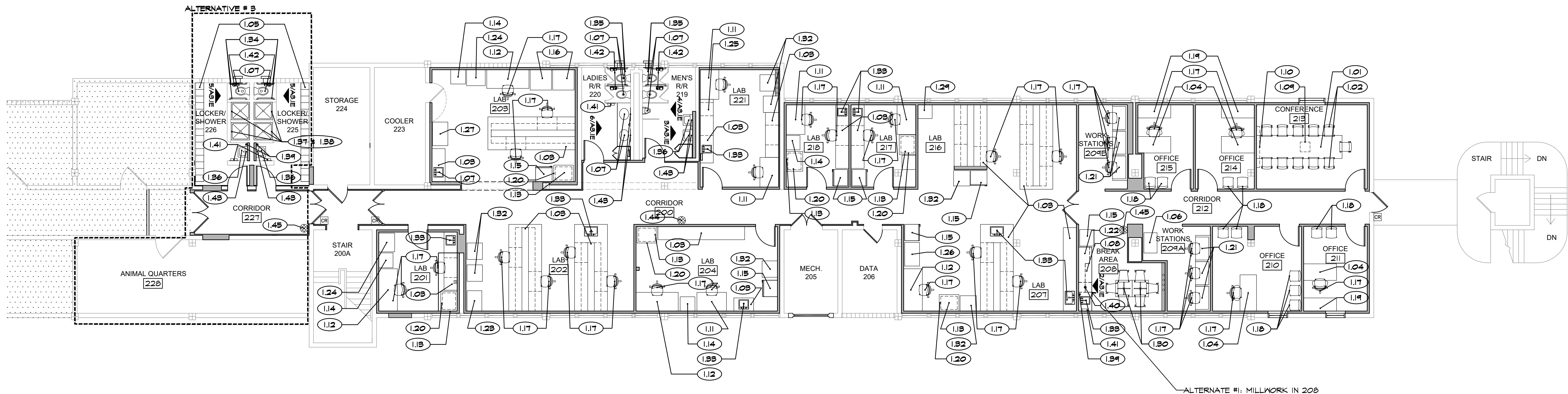
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project no. 2020.007.00  
date OCTOBER 2022  
designed by HS  
drawn by KB/SM  
checked by HS  
revised AUGUST 10, 2020



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1 EQUIPMENT PLAN & MILLWORK REFERENCE PLAN  
SCALE: 1/8"=1'-0"

**EQUIPMENT LEGEND**

**EQUIPMENT SCHEDULE**

1.01	OFOI	CONFERENCE TABLE
1.02	OFOI	CHAIR
1.03	OFOI	CASEWORK
1.04	OFOI	DESK
1.05	OFOI	NEW LOCKERS
1.06	OFOI	COPIER
1.07	OFOI	FLUWING FIXTURE
1.08	OFOI	MILLWORK - ALTERNATE ONE CFCI
1.09	OFOI	PROJECTOR
1.10	OFOI	PROJECTION SCREEN
1.11	OFOI	HOOD A
1.12	OFOI	HOOD B
1.13	OFOI	TABLE TOP CENTRIFUGE
1.14	OFOI	DIAL CHAMBER INCUBATOR
1.15	OFOI	REFRIGERATOR
1.16	OFOI	-80 C FREEZER
1.17	OFOI	TASK CHAIR
1.18	OFOI	GUEST CHAIR
1.19	OFOI	CREDENZA
1.20	OFOI	TABLE
1.21	OFOI	SYSTEMS FURNITURE
1.22	OFOI	MICROWAVE
1.23	OFOI	ULTRA CENTRIFUGE
1.24	OFOI	AVANTI J-25 CENTRIFUGE
1.25	OFOI	RT-FOR MACHINE
1.26	OFOI	CO2 INCUBATOR
1.27	OFOI	ROTATING SHAKER INCUBATOR
1.28	OFOI	EYEWASH AND EMERGENCY SHOWER
1.29	OFOI	REACH IN CO2 INCUBATOR
1.30	OFOI	BREAKROOM TABLE AND CHAIR SMALL SET
1.31	OFOI	TRASH CAN
1.32	OFOI	-20 C FREEZER
1.33	OFOI	FLUWING FIXTURE INSTALLED IN OWNER FURNISHED CASEWORK
1.34	CFCI	50 INCH GRAB BAR
1.35	CFCI	36 INCH GRAB BAR
1.36	CFCI	CONCEALED ARM SYSTEM
1.37	CFCI	WALL LAVATORIES
1.38	CFCI	SHOWER CURTAIN ROD
1.39	CFCI	SHOWER CURTAIN
1.40	CFCI	FOAM SOAP DISPENSER
1.41	CFCI	TRASH GROMMET
1.42	CFCI	PAPER TOWEL DISPENSER
1.43	CFCI	TOILET TISSUE DISPENSER
1.44	OFOI	MIRROR
1.45	OFOI	RELOCATE EXISTING FIRE EXTINGUISHER
1.46	OFOI	NEW FIRE EXTINGUISHER

**FLOOR PLAN LEGEND**

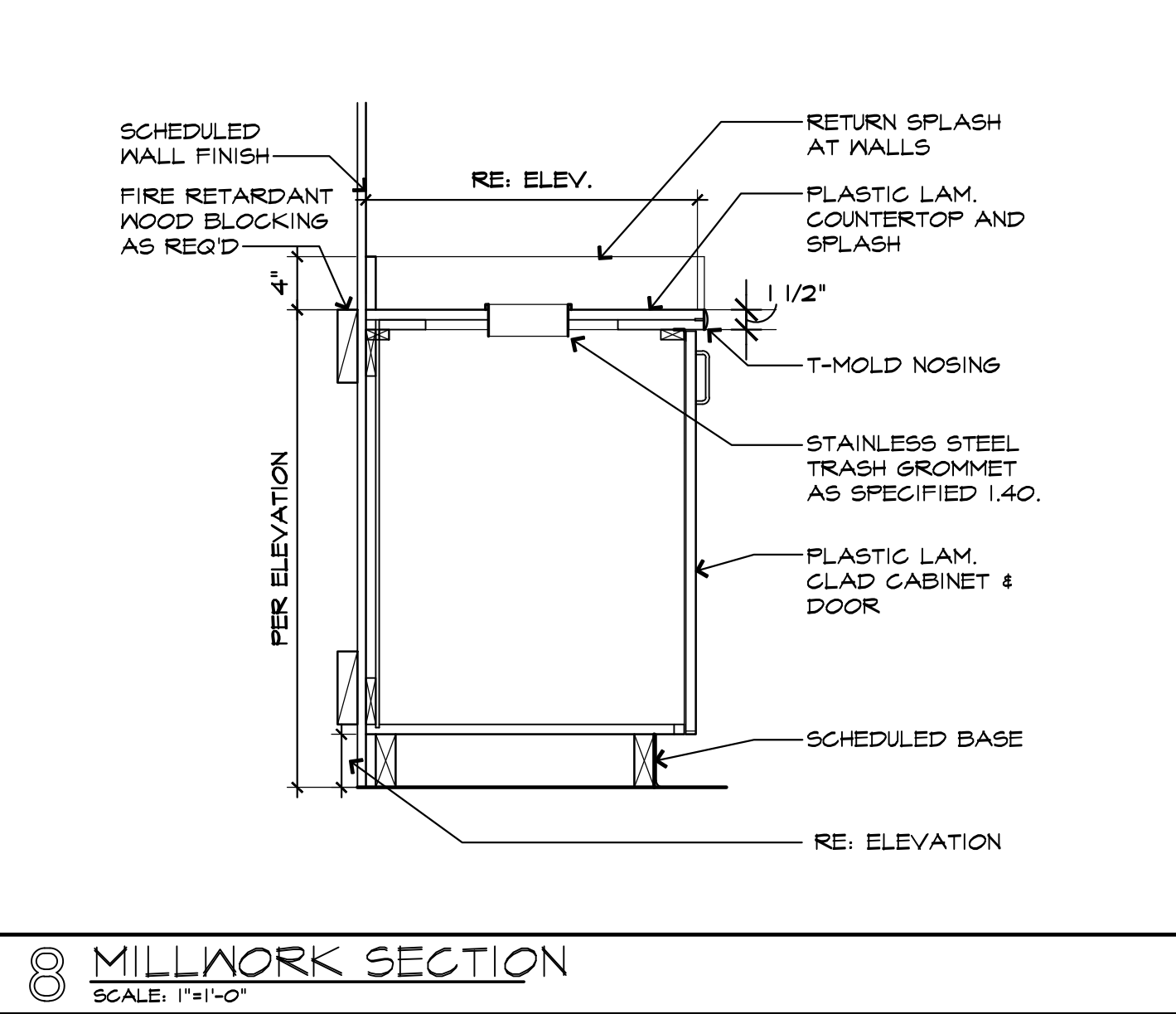
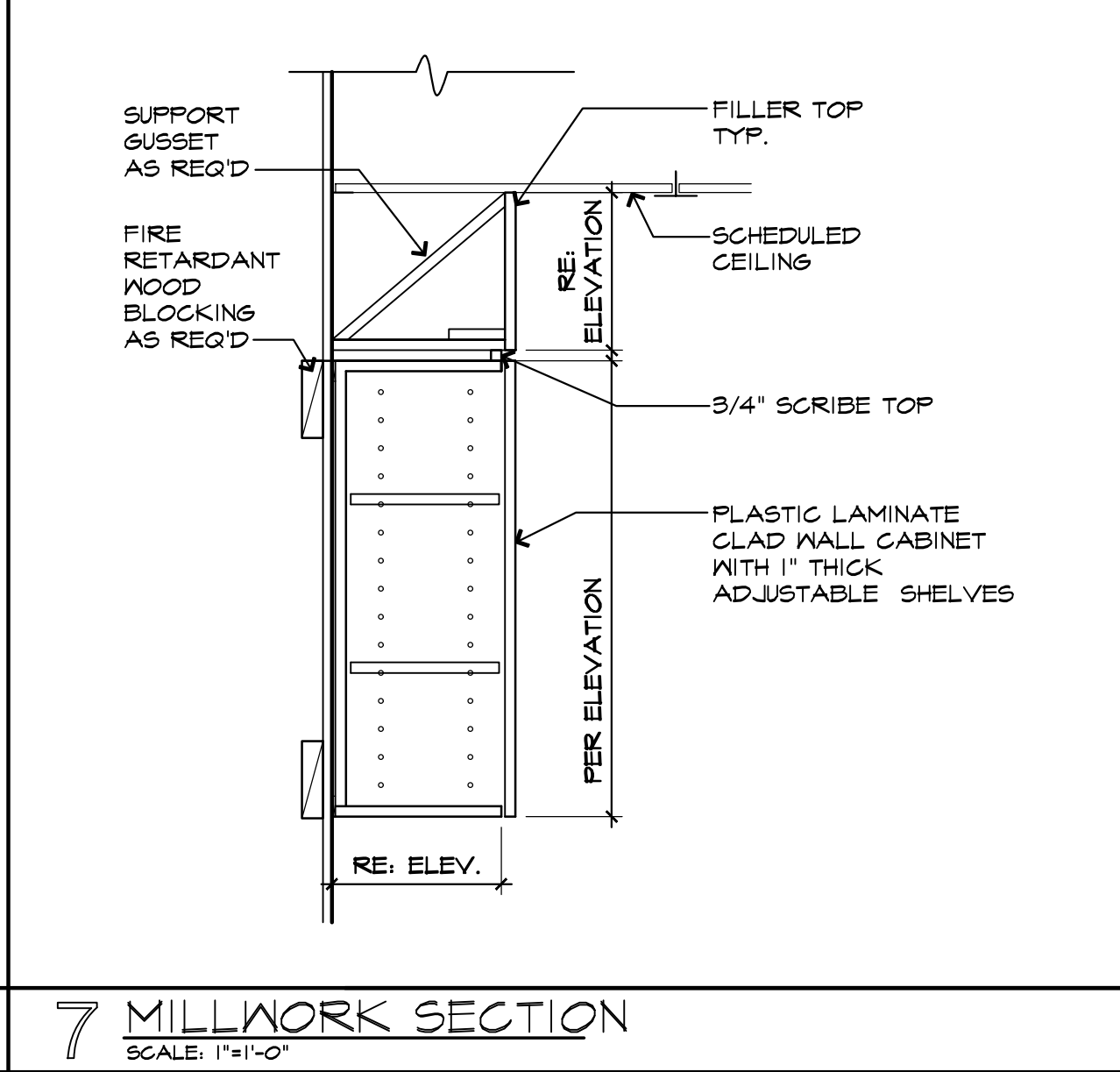
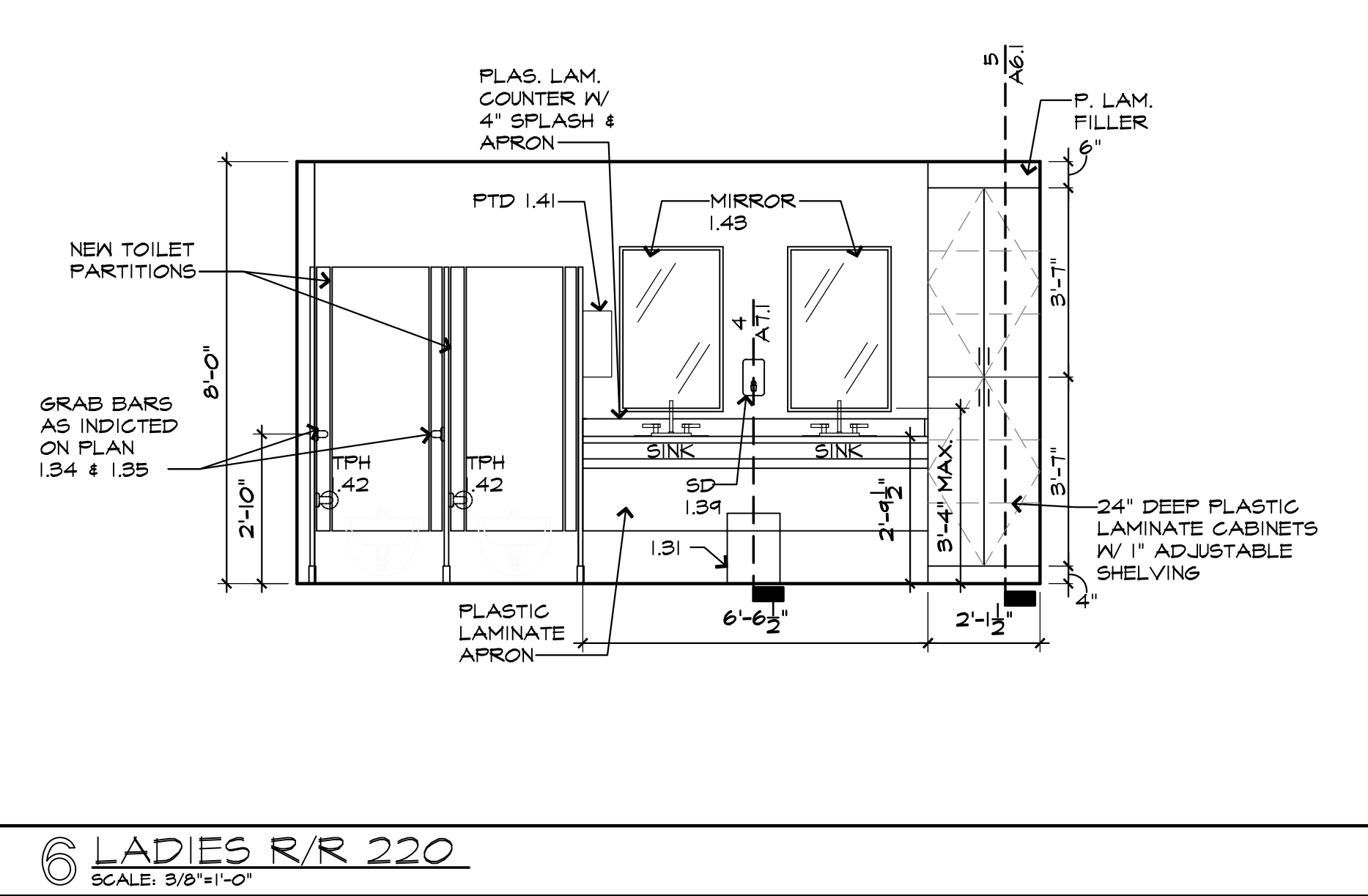
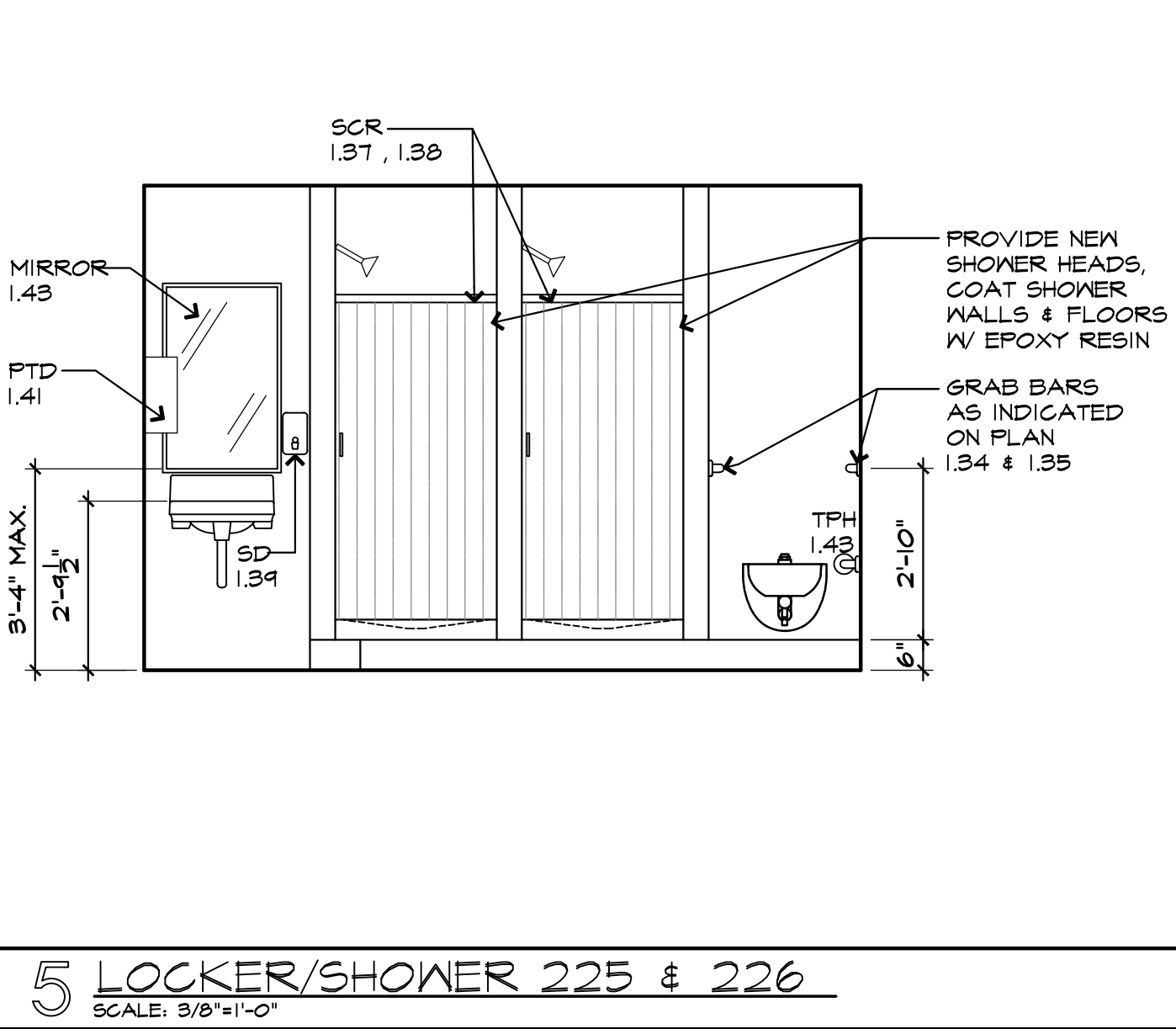
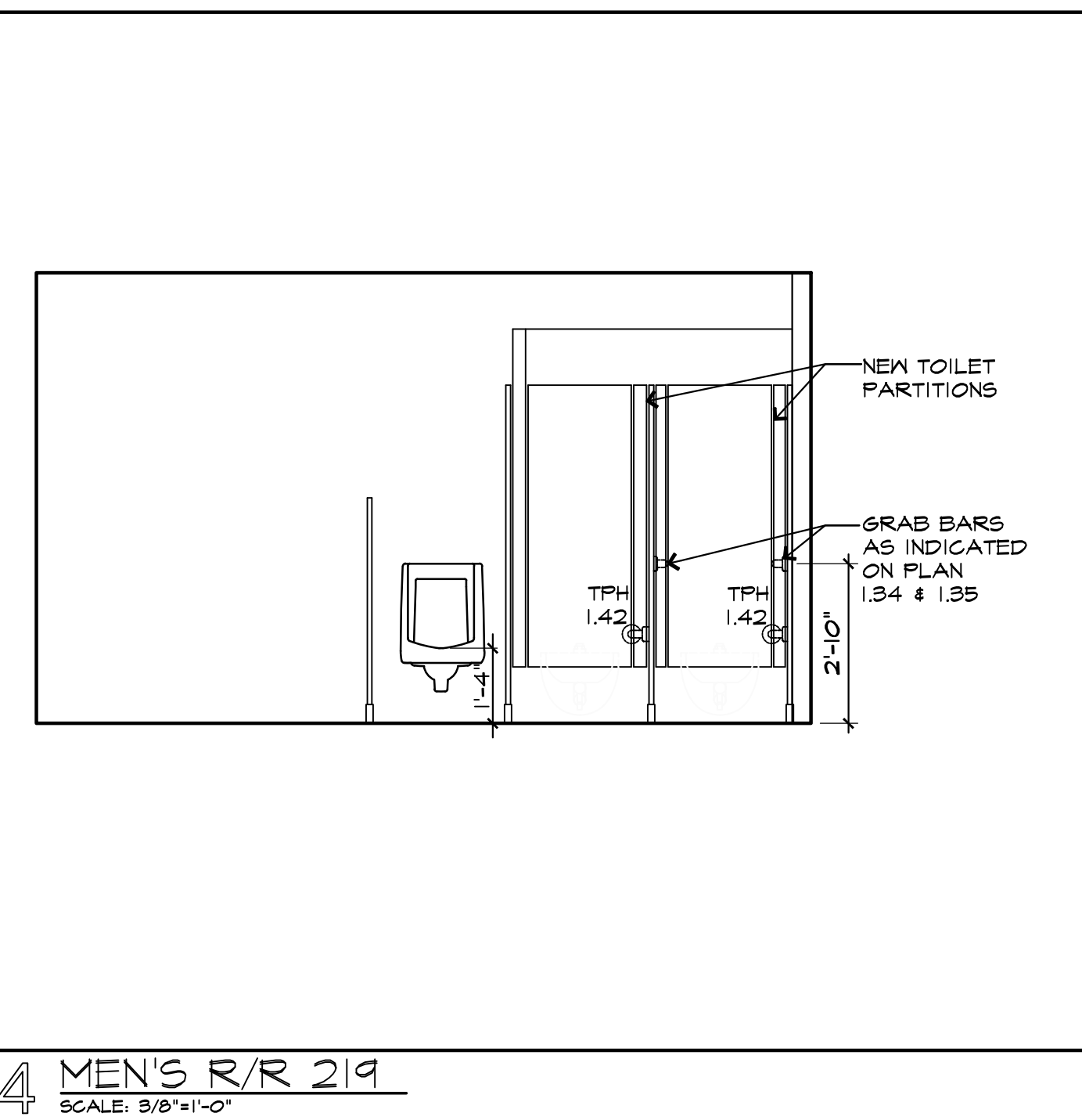
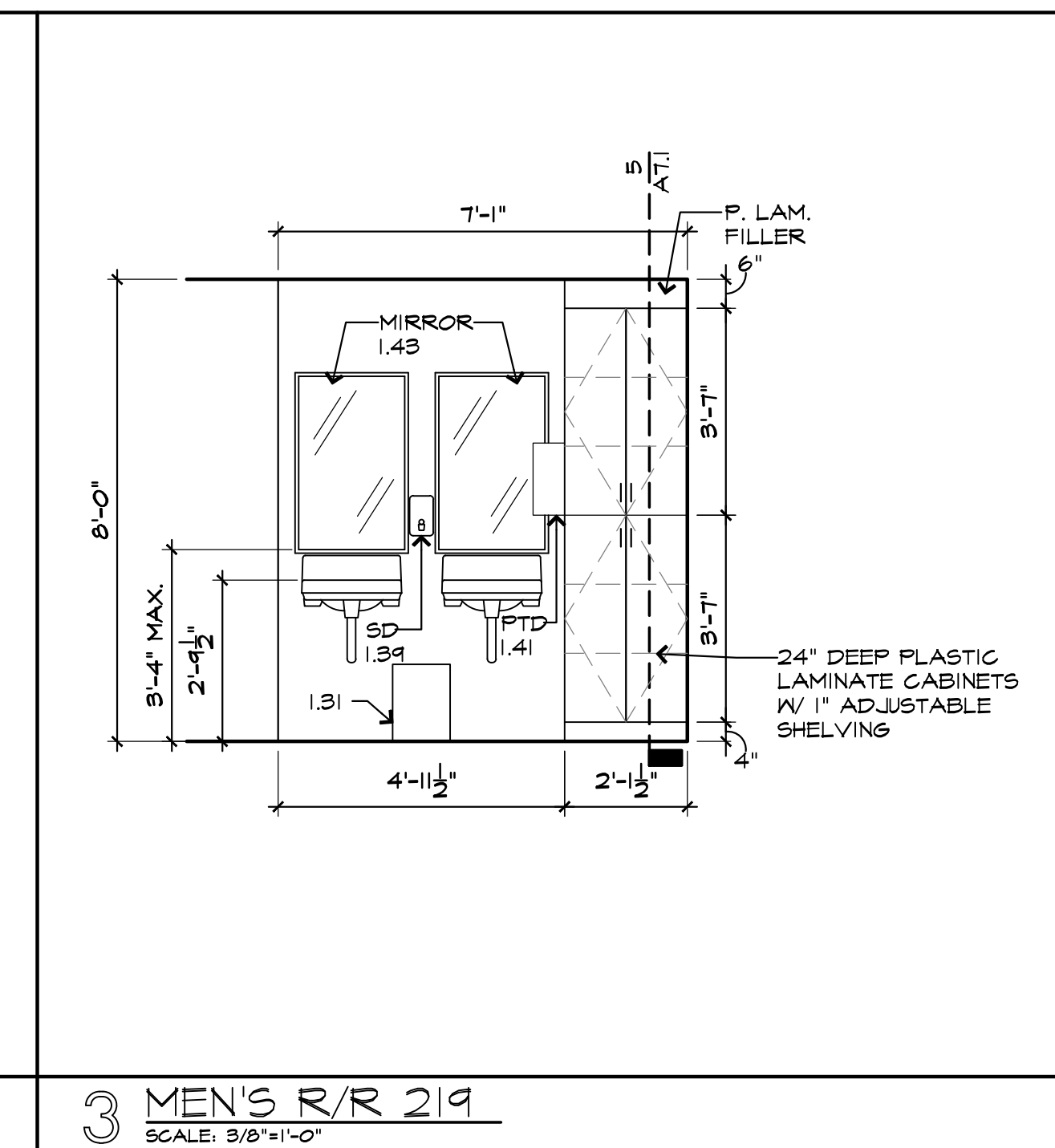
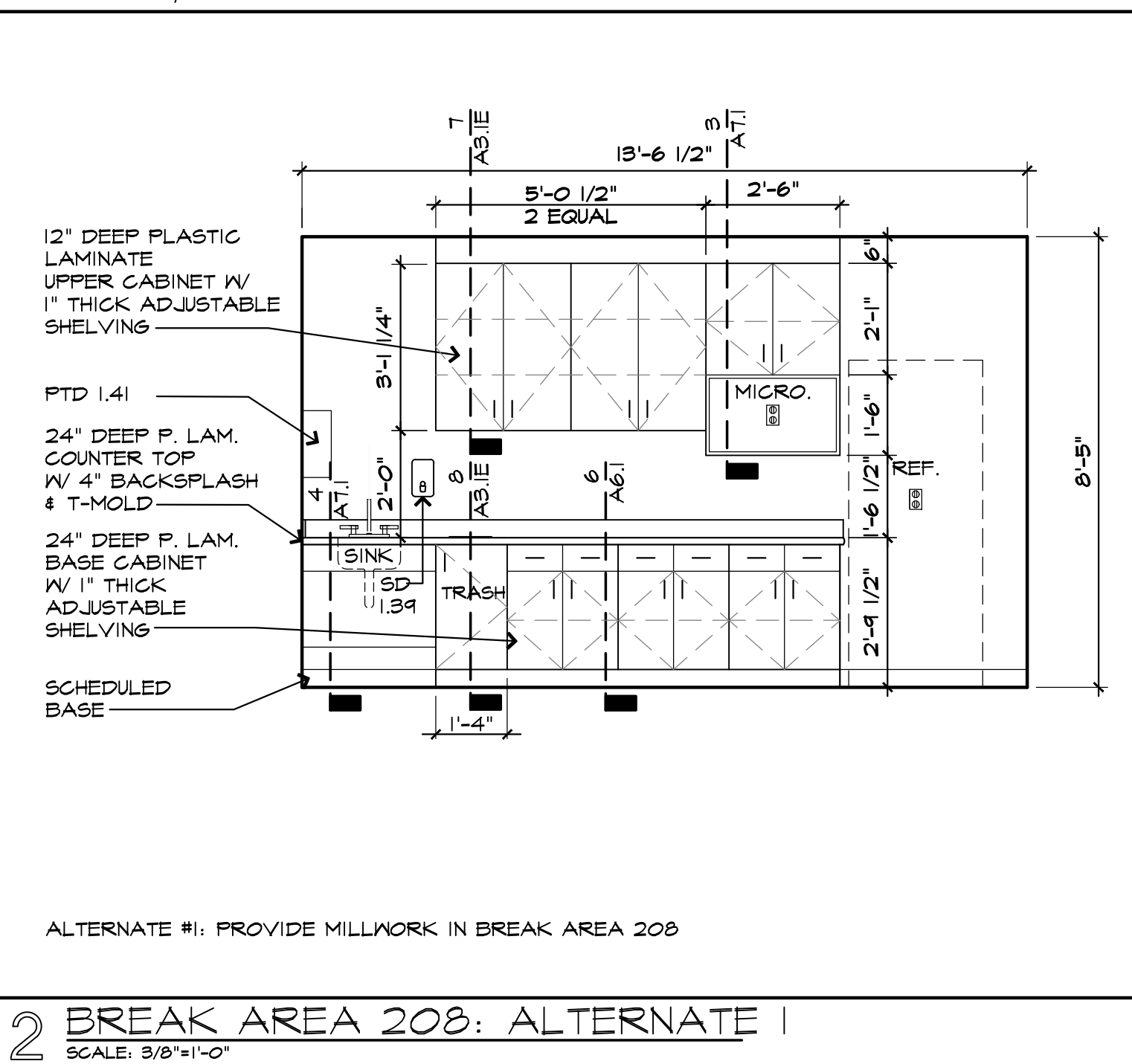
INTERIOR ELEVATION  
RE: AT.1  
DRAWING #/SHEET #

**GENERAL EQUIPMENT NOTES**

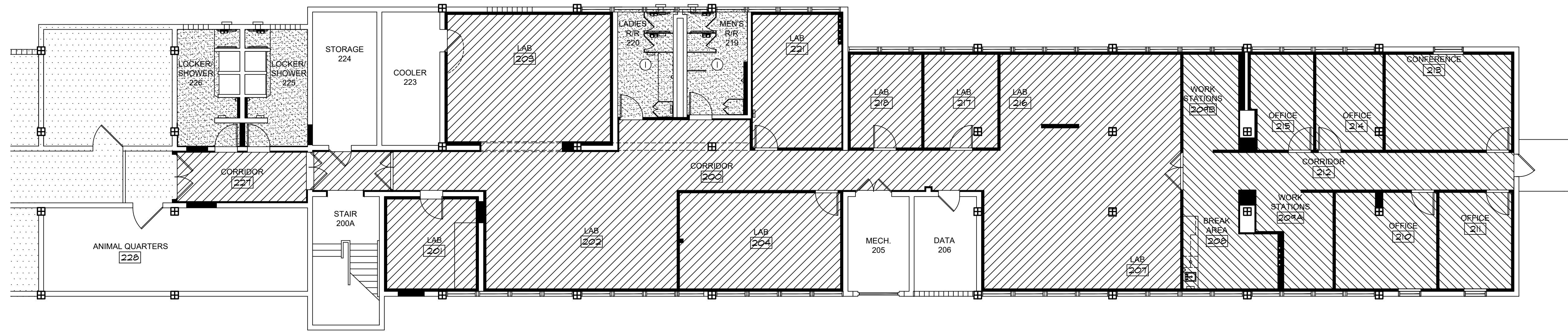
- REFERENCE EQUIPMENT LIST FOR PROVIDING AND INSTALLING RESPONSIBILITIES:  
OFOI= OWNER FURNISHED OWNER INSTALLED  
OFCI= OWNER FURNISHED CONTRACTOR INSTALLED  
OFVI= OWNER FURNISHED VENDOR INSTALLED  
CFCI= CONTRACTOR FURNISHED CONTRACTOR INSTALLED
- SIGNAGE TO BE OFOI
- (1.0) EQUIPMENT REFERENCE

**SPECIAL LOCKING LEGEND**

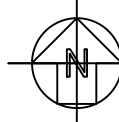
CR CARD READER







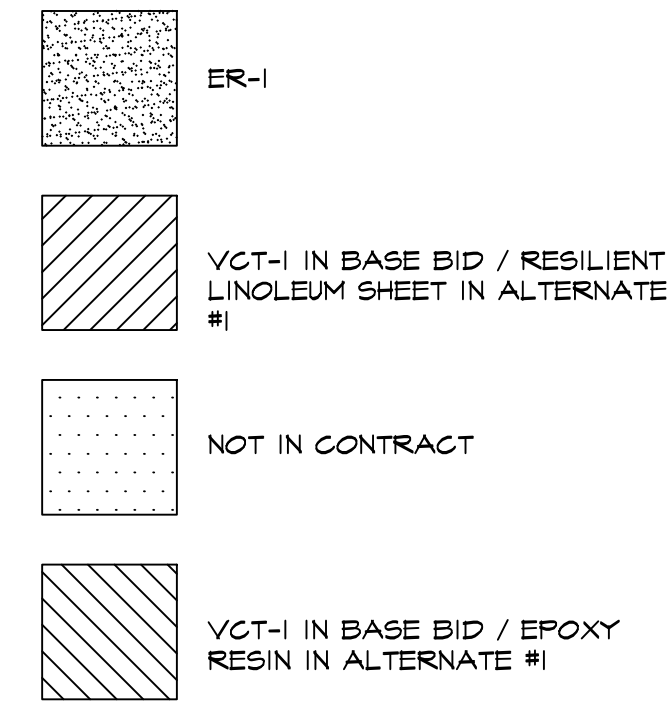
1 FLOOR FINISH PLAN  
SCALE: 1/8" = 1'-0"



0 4' 8' 16'  
SCALE: 1/8" = 1'-0"

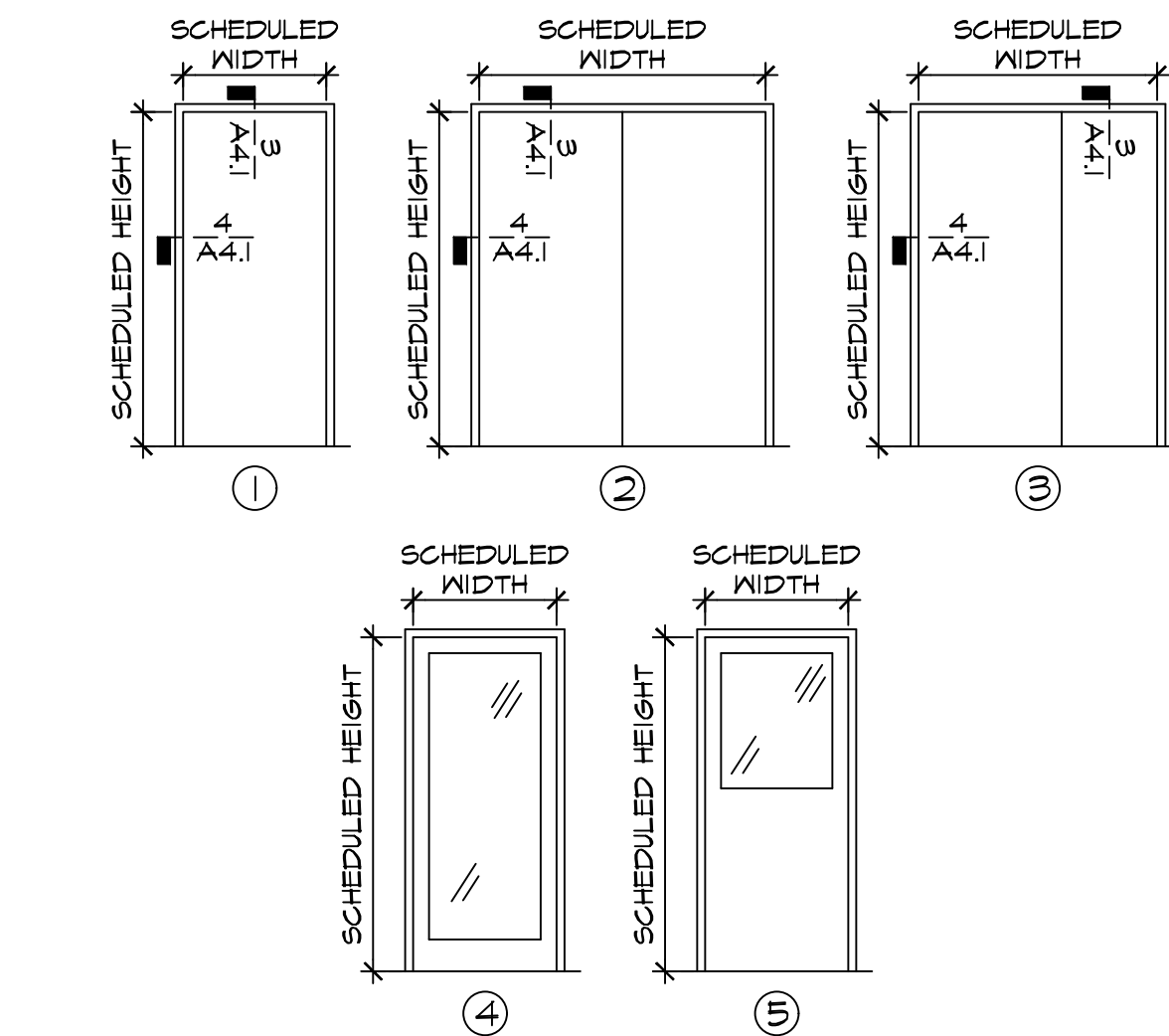
EXISTING - NOT IN CONTRACT

## FINISH LEGEND

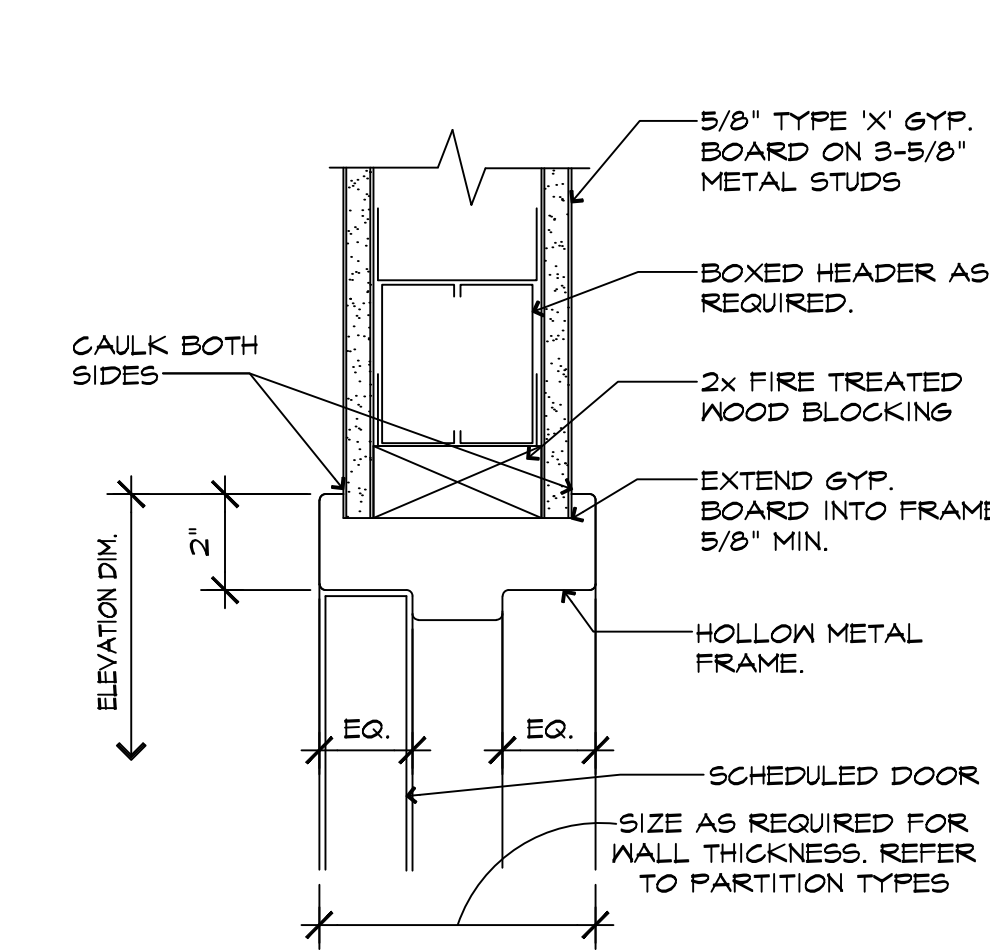


## KEY NOTES

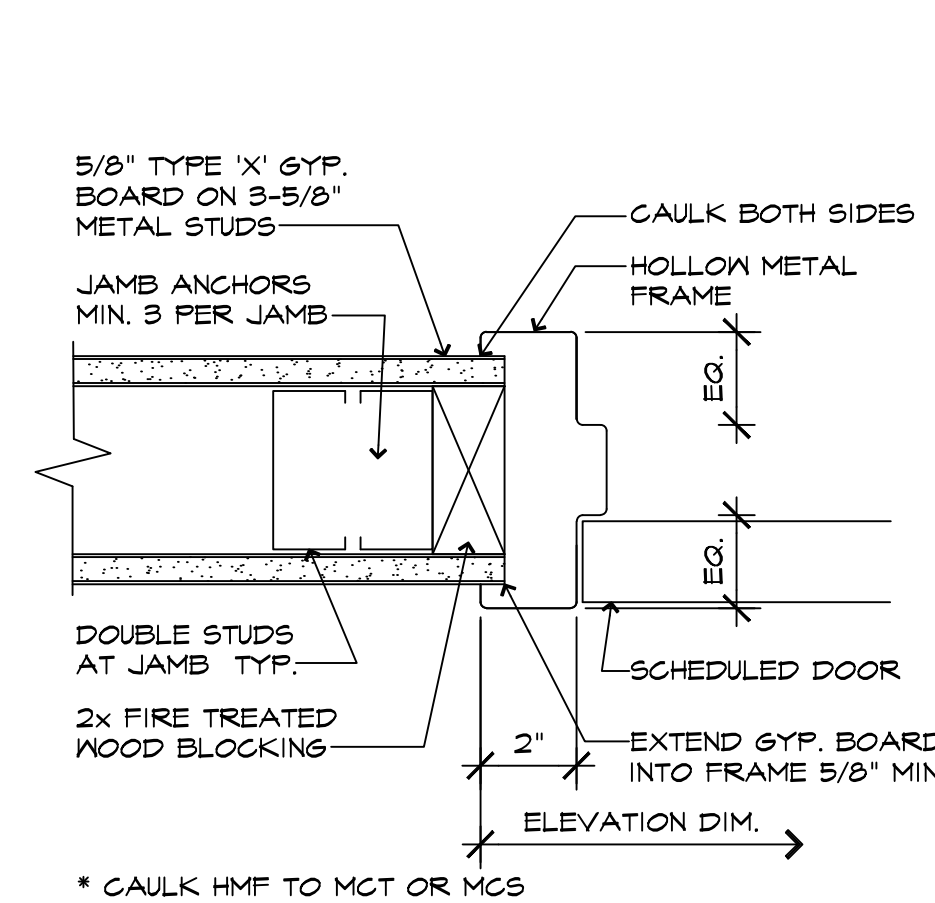
- ① REPAIR EXISTING DAMAGED GLAZED WALL TILE, EPOXY PAINT TO MATCH ADJACENT WALLS.



2 DOOR TYPES  
SCALE: 1/4" = 1'-0"



3 HM DOOR HEAD DETAIL  
SCALE: 3/4" = 1'-0"



4 HM DOOR JAMB DETAIL  
SCALE: 3/4" = 1'-0"

## FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR BASE BID/ALT. #1	BASE BASE BID/ALT. #1	WALL				CEILING	CEILING HEIGHT	REMARKS
				N	E	S	W			
NOTE: ENTIRE RENOVATED AREA TO BE PAINTED										
200	CORRIDOR	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-0"	
201	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-0"	
202	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-0"	
203	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-0"	
204	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-0"	
207	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
208	BREAK AREA	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
209A	WORK STATIONS	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
209B	WORK STATIONS	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
210	OFFICE	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
211	OFFICE	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
212	CORRIDOR	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
213	CONFERENCE	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
214	OFFICE	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
215	OFFICE	VCT-1/ER-1	B-2	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
216	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
217	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
218	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-5"	
219	MEN'S R/R	ER-1	B-1	EP-1	EP-1	EP-1	EP-1	C-2	8'-0"	
220	LADIES R/R	ER-1	B-1	EP-1	EP-1	EP-1	EP-1	C-2	8'-0"	
221	LAB	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-1	8'-0"	
225	LOCKER/SHOWER	ER-1	B-1	EP-1/ER-2	EP-1/ER-2	EP-1/ER-2	EP-1/ER-2	C-2	8'-0"	
226	LOCKER/SHOWER	ER-1	B-1	EP-1/ER-2	EP-1/ER-2	EP-1/ER-2	EP-1/ER-2	C-2	8'-0"	
227	CORRIDOR	VCT-1/RLS-I	B-2/B-3	PNT-1	PNT-1	PNT-1	PNT-1	C-2	8'-0"	
228	ANIMAL QUARTERS	-	PATCH	PNT-1	PNT-1	PNT-1	PNT-1	-	-	

## DOOR & FRAME SCHEDULE

DOOR #	TYPE	FIRE RATING	DOOR				FRAME MATERIAL	NOTES
			WIDTH	HEIGHT	THICKNESS	MATERIAL		
2-200A	3	1 HR.	3'-0"/2'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 1	1 HR. RATED FRAMES
2-200B	3	1 HR.	3'-0"/2'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 1	1 HR. RATED FRAMES
2-201	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-204	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-205	2	-	2'-6" / 2'-6"	6'-8"	1 3/4"	SOLID CORE WOOD	SET 4	
2-206	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 10	
2-210	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-211	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-212A	3	-	3'-0"/2'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 2	
2-212B	5	-	3'-0"	6'-8"	1 3/4"	GALV. HM INSULATED	SET 8	
2-213	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-214	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-215	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-217	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-218	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-219	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 4	
2-220	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 4	
2-221	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 5	
2-224	2	1 HR.	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 3	1 HR. RATED FRAMES
2-225	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 4	ALT #3
2-226	1	-	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 4	ALT #3
2-227	2	-	FR. 3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	SET 2	ALT #3

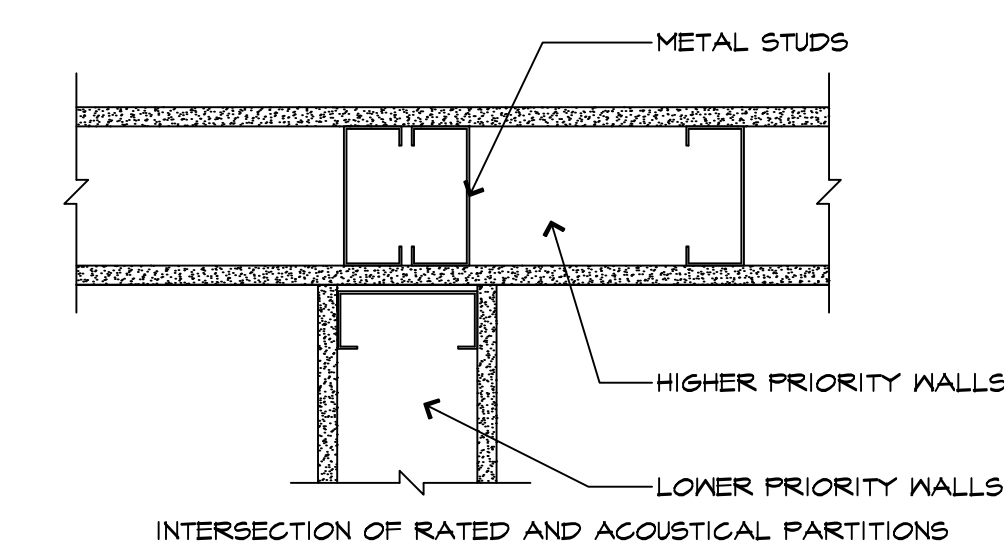
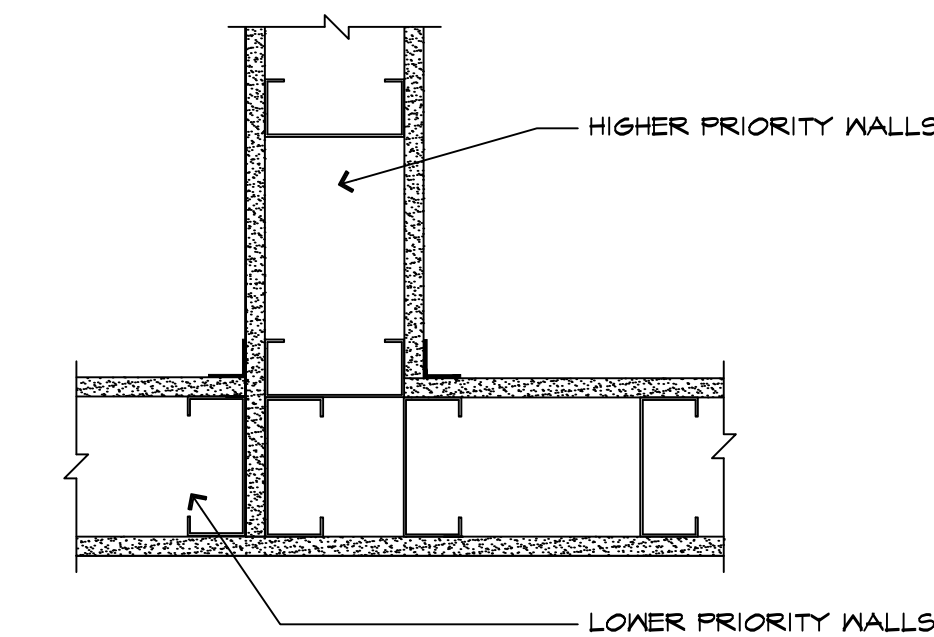
## MILLWORK & WALL PROTECTION FINISH MATERIALS

CODE	MATERIAL	MANUFACTURER	MODEL NAME/NUMBER	COLOR/COLOR#	TYPE	NOTES
MILLWORK						
PL-1	PLASTIC LAMINATE	-	-	-	-	CABINET FACES
PL-2	PLASTIC LAMINATE	-	-	-	-	COUNTERTOPS
T-MOLD	TRASH GROMMET	CHARTER INDUSTRIES	TMIC PSS 6"	POLISHED STAINLESS STEEL	-	

## FINISH NOTES

- ALL GYPSUM BOARD SHALL BE INSTALLED A MAXIMUM 1/2" ABOVE FINISHED FLOOR.
- AT EXISTING GYPSUM BOARD WALLS WHERE EXISTING RESILIENT BASE IS REMOVED AND PARTITION REMAINS, RE-FLOAT TO A SMOOTH SURFACE AND PAINT BEFORE INSTALLATION OF NEW BASE. AT ANY EXISTING WALLS WHERE GYPSUM BOARD IS GREATER THAN 1/2" FROM FINISH FLOOR, CUT GYPSUM BOARD STRIPS, FILL IN AND RE-FLOAT.
- APPLY A BEAD OF LATEX SEALANT AT LOWER EDGE OF TRIM AND WALL INTERSECTION.
- ALL FLOOR FINISHES TO BE INSTALLED PRIOR TO MILLWORK AND RUN CONTINUOUS WALL TO WALL.
- PATCH AREAS IN DRYWALL WHERE ELECTRICAL OR DATA OUTLET BOXES ARE REMOVED.
- PATCH ALL DRYWALL WHERE PREVIOUS WALLS WERE REMOVED.
- REMOVE ALL MISC. EXISTING SIGNAGE OR WALL MOUNTED CONTAINERS & PATCH ALL DRYWALL WITH HOLES OR DAMAGE THROUGHOUT SUITE.
- SEAL BETWEEN ALL BACK SPLASHES & COUNTERS WITH MATCHING CAULK.
- CAULK HOLLOW METAL FRAMES TO FLOOR WHERE APPLICABLE.
- CAULK ALL CEILING GRID TO WALL PRIOR TO PAINTING.
- PAINT ALL MILLWORK CLEATS.

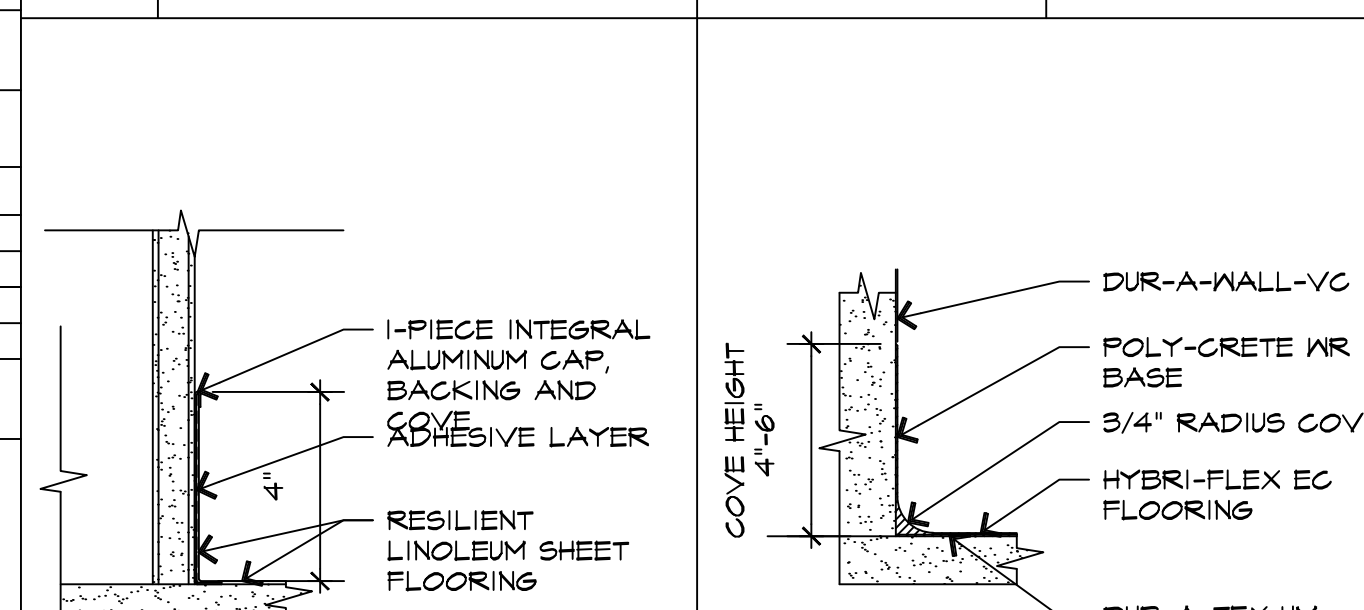
- ONE HOUR FIRE WALL ————— PRIORITY 2  
ONE HOUR SHAFT WALL ————— PRIORITY 3  
ACOUSTICAL PARTITION TO DECK ————— PRIORITY 4 LOWEST  
NON-RATED WALL ————— PRIORITY 4 LOWEST  
NOTE: REFER TO WALL CONSTRUCTION TYPES FOR WALL COMPONENTS



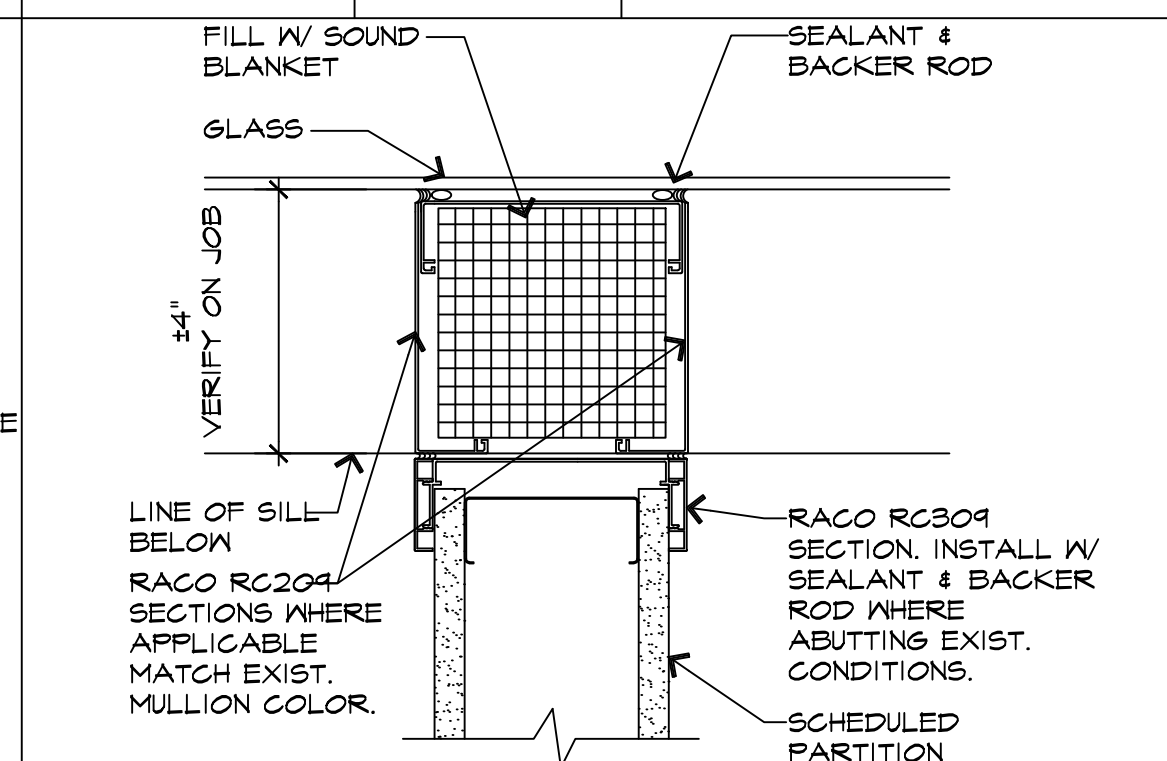
5 PARTITION PRIORITY LEGEND

## FINISH MATERIALS

CODE	MATERIAL	MANUFACTURER	PATTERN NAME	COLOR/COLOR#	TYPE	NOTES
FLOOR						
ER-1	EPOXY RESIN FLOORING	-	-	-	-	-
VCT-1	VINYL COMPOSITION TILE	-	-	-	-	-
RLS-I	RESILIENT LINOLEUM SHEET FLOORING	-	4" WALL BASE	-	-	-
BASE						
B-1	EPOXY RESIN BASE RE: T/A4.1	-	-	-	-	-
B-2	RUBBER BASE	JOHNSONITE	4" WALL BASE	-	-	-
B-3	RESILIENT LINOLEUM COVE BASE RE: 6/A4.1	-	4" WALL BASE	-	-	-
WALLS						
PNT-1	PAINT	-	-	-	EGGSHELL	TYPICAL WALLS
PNT-2	PAINT	-	-	-	SEMI-GLOSS	TRIM & DOOR FRAMES
EP-1	EPOXY PAINT	-	-	-	-	APPLIED OVER GLAZED WALL TILE ON WALLS OF SHOWER
ER-2	EPOXY RESIN WALL COATING	-	-	-	-	
CEILING						
C-1	CEILING TILE - 2x2' TYPE 1 ACT - STANDARD	USG	RADAR CLIMAPLUS	2210	2 x 2	-
C-2	CEILING TILE - 2x2' TYPE 2 ACT - R/R & SHOWER	USG	RADAR CERAMIC	56644	2 x 2	-
C-3	CEILING PAINTED GYPSUM BOARD	-	-	-	-	-
DOORS						
D-1	DOORS	PAIN GRADE WOOD	-	-	-	-
HARDWARE FINISH	BRUSHED NICKEL	-	BRUSHED NICKEL	-	-	-



6 RESILIENT LINOLEUM COVE BASE  
SCALE: 1/4" = 1'-0"



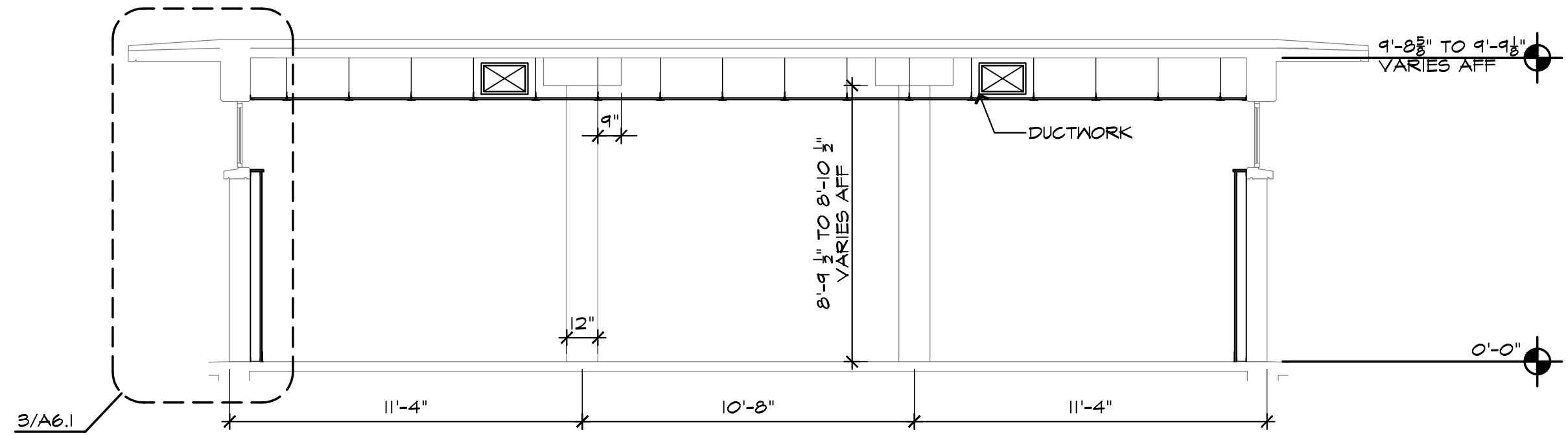
7 EPOXY RESIN BASE  
SCALE: 1/4" = 1'-0"

8 WALL & EXISTING ALUM. & GLASS INTERSECTION DETAIL  
SCALE: 3/4" = 1'-0"

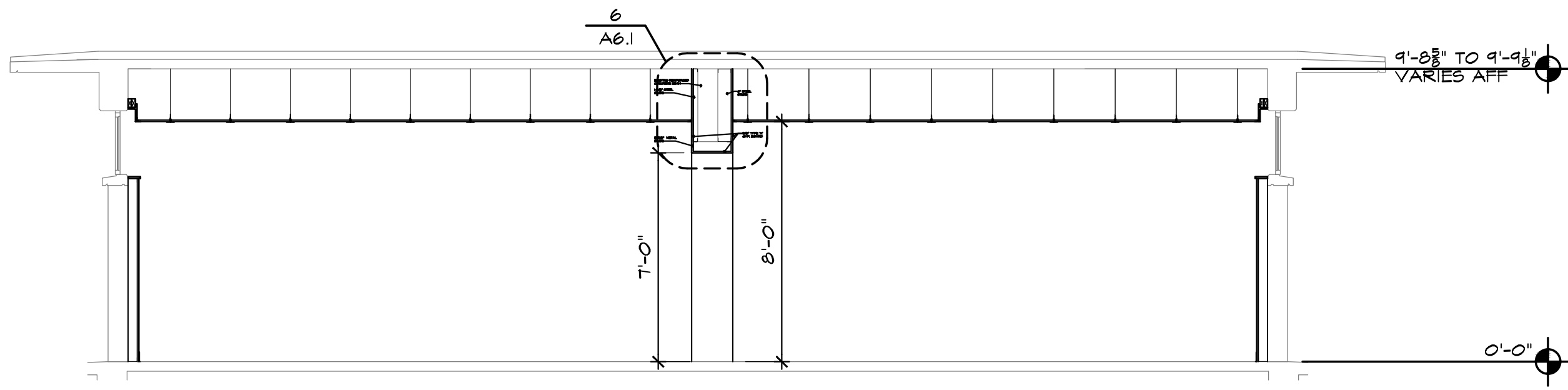




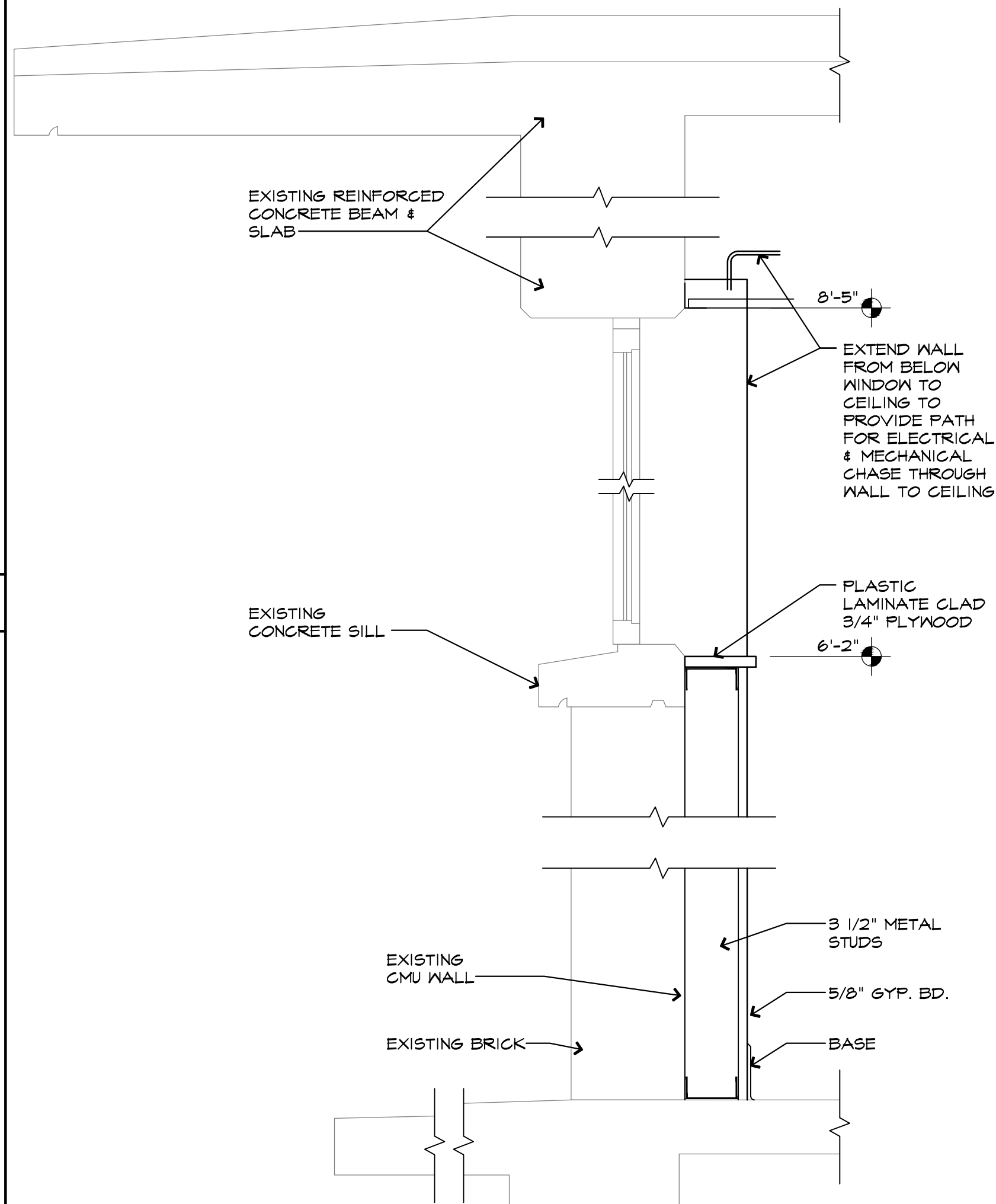




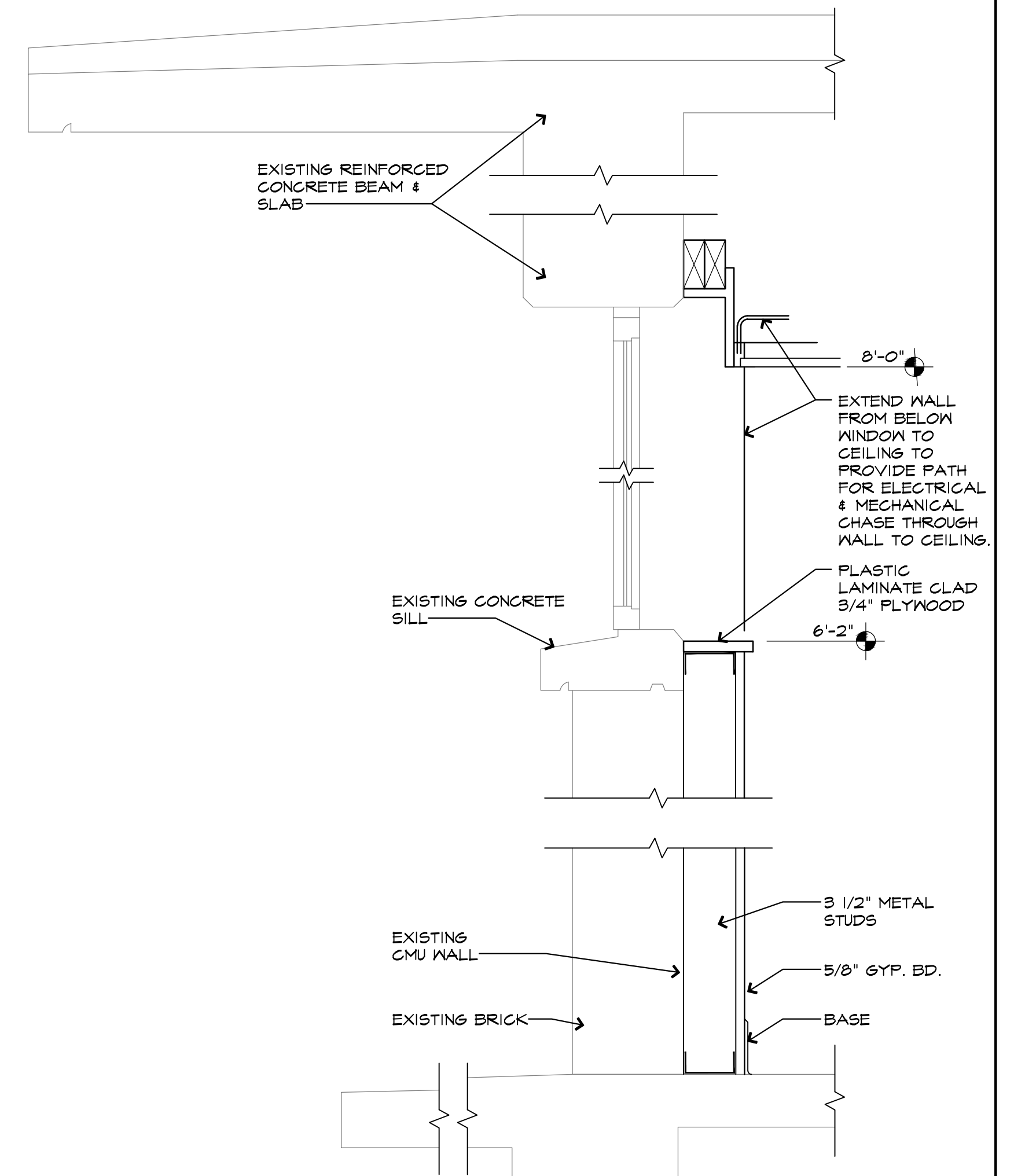
**1 BUILDING SECTION**  
SCALE: 1/4" = 1'-0"



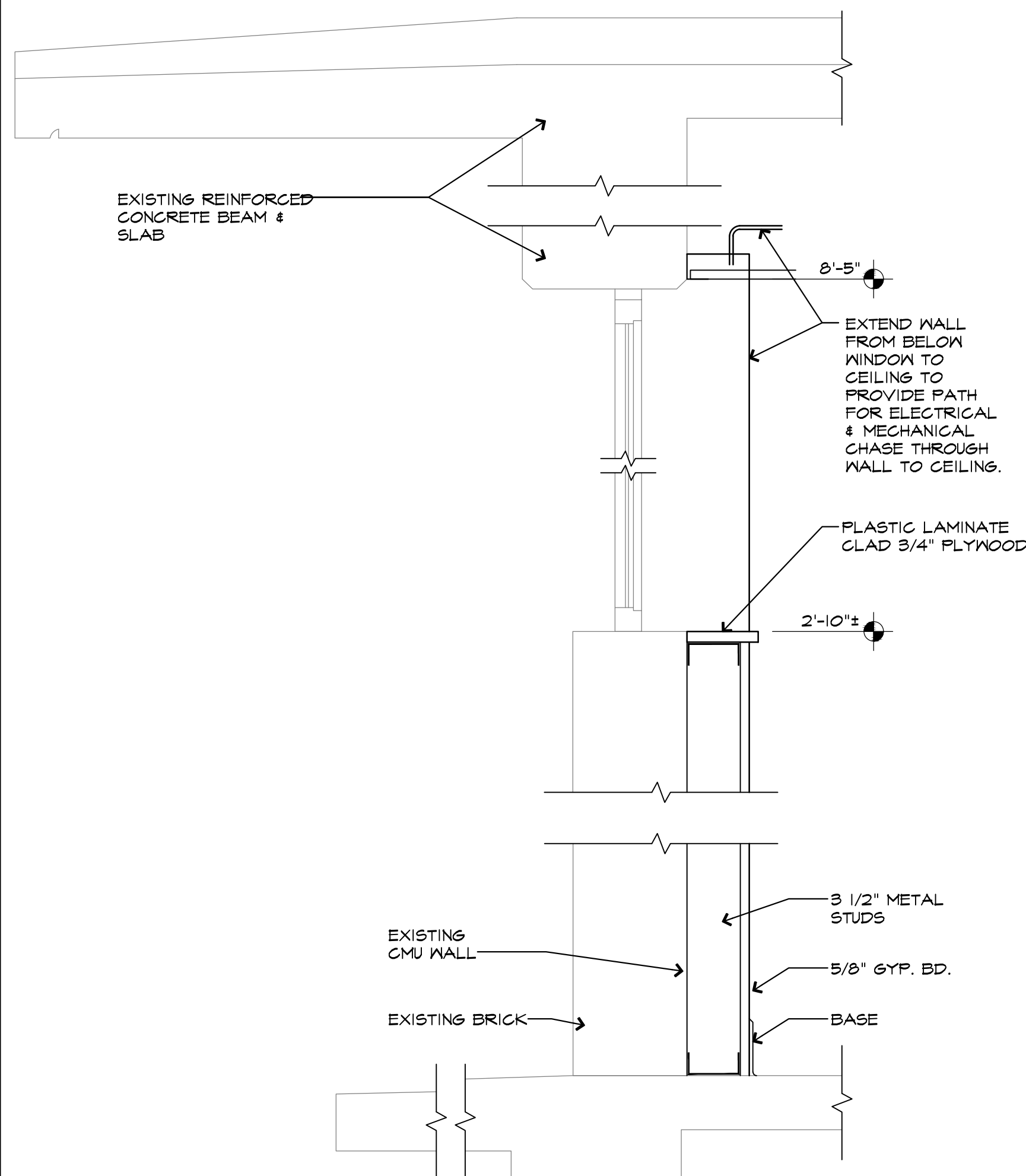
**2 BUILDING SECTION**  
SCALE: 1/4" = 1'-0"



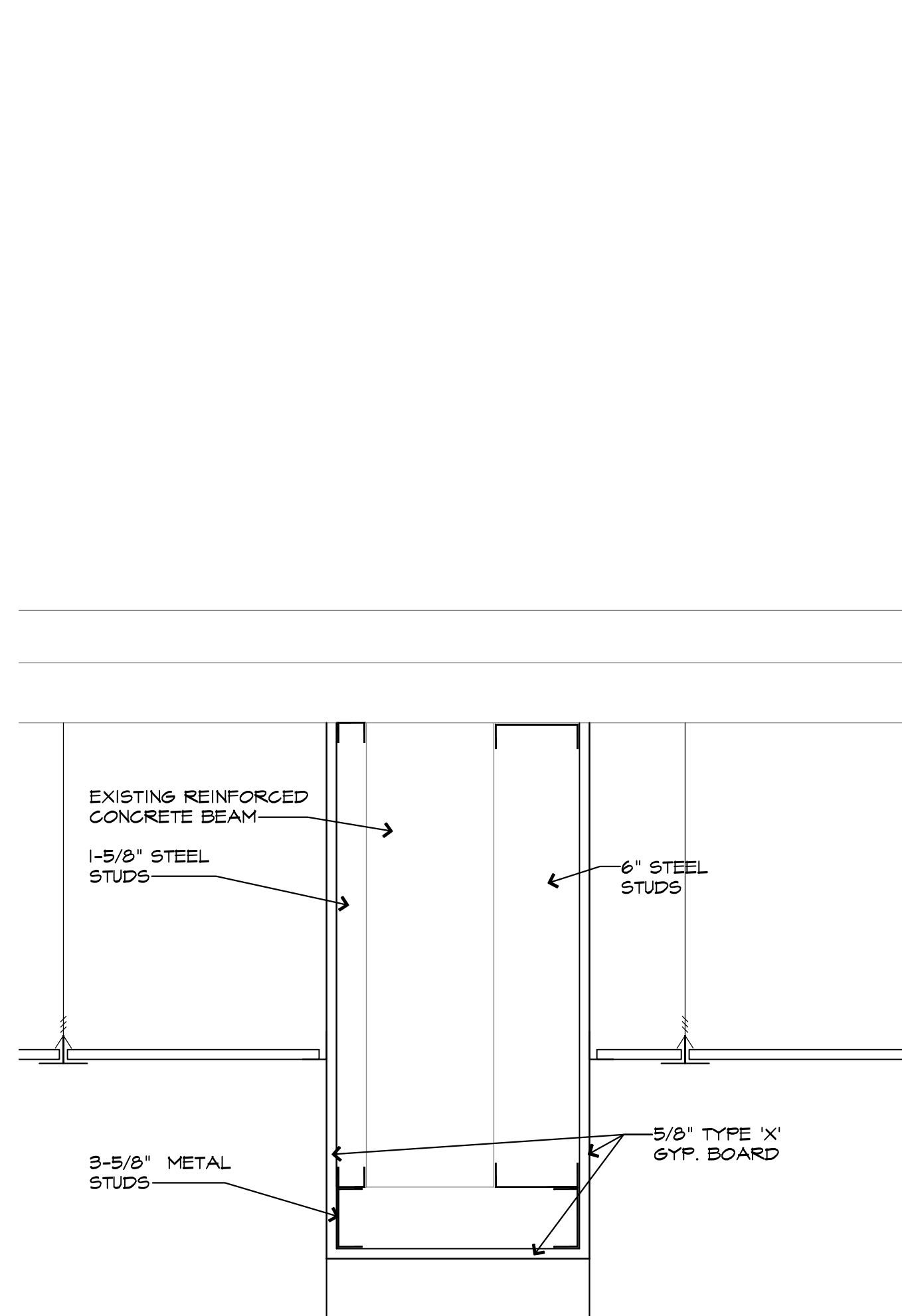
**3 DETAIL @ PERIMETER WALL & CEILING**  
SCALE: 1 1/2" = 1'-0"



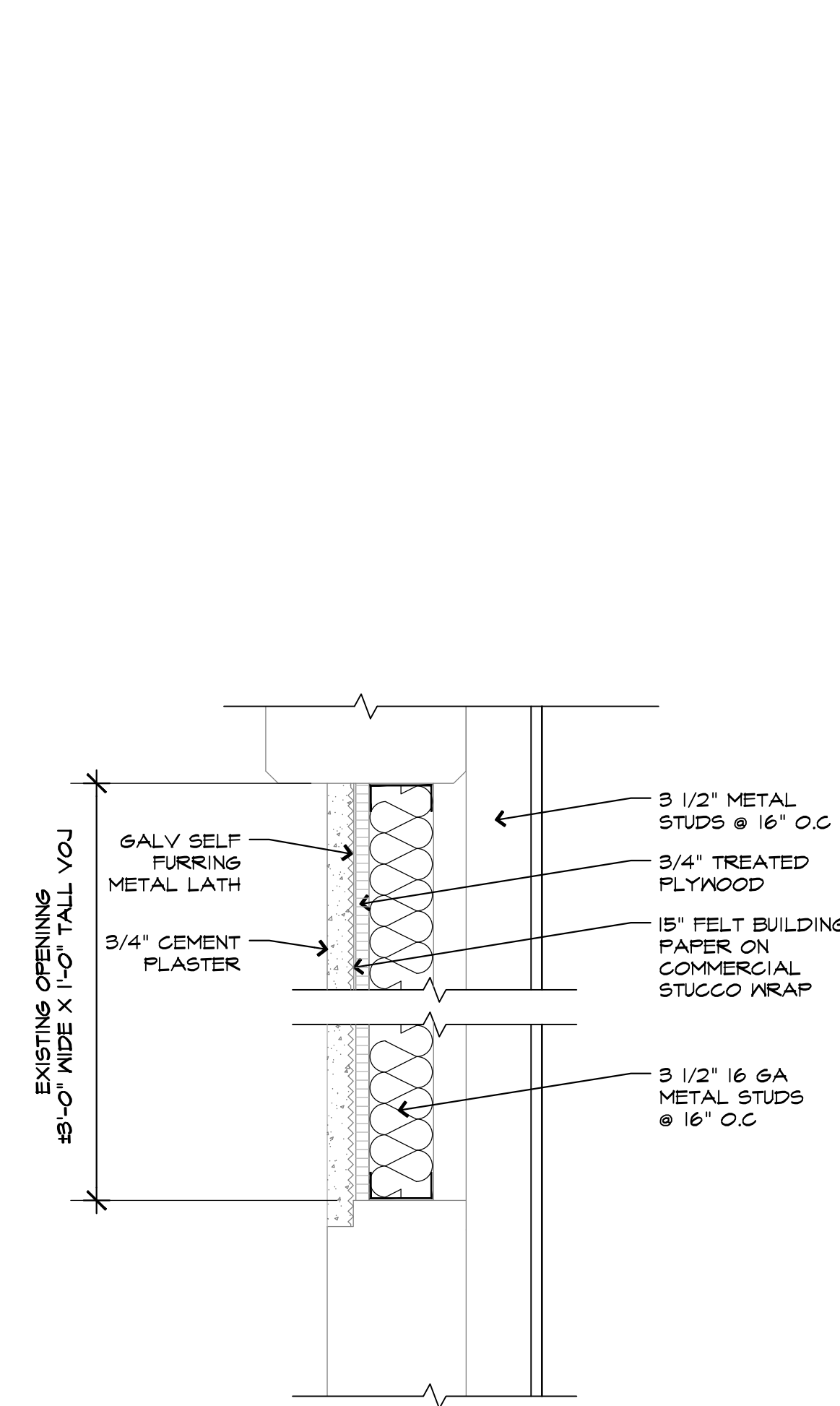
**4 DETAIL @ PERIMETER WALL & CEILING**  
SCALE: 1 1/2" = 1'-0"



**5 DETAIL @ PERIMETER WALL & CEILING**  
SCALE: 1 1/2" = 1'-0"



**6 DETAIL @ EXISTING BEAM CASED OPENING**  
SCALE: 1 1/2" = 1'-0"

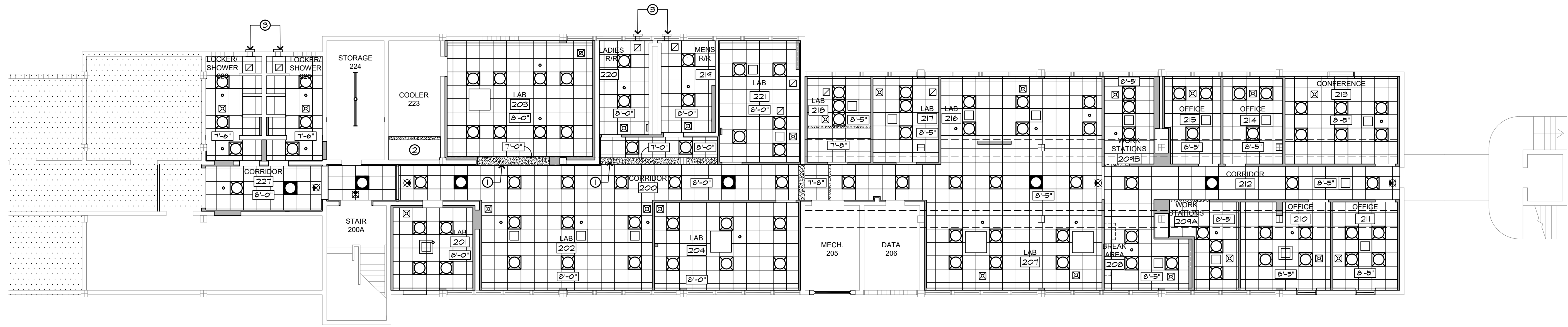


**7 WALL SECTION @ OPENING ENCLOSURE**  
SCALE: 1 1/2" = 1'-0"









1 REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"



#### REFLECTED CEILING KEY NOTES

- ① RE: DETAIL 6/A6.1
- ② REMOVE EXISTING FURRING FOR CAPPING OF EXISTING DUCT WORK. REINSTALL FURRING AND PAINT.
- ③ REFER TO NOTES 10 & 11 ON SHEET A8.1 FOR ENCLOSURE AROUND EXHAUST AND VENT IN THIS LOCATION.

#### GENERAL NOTES

1. -

#### REFLECTED CEILING PLAN LEGEND

- 8'-0" CEILING HEIGHT
- ACOUSTICAL LAY IN CEILING AND GRID AS SPECIFIED
- GYPSUM BOARD CEILING AS SPECIFIED
- LIGHT FIXTURES, RE: ELEC.
- RECESSED CASSETTE UNIT
- SUPPLY GRILLE, RE: MECH.
- RETURN AIR GRILLE, RE: MECH.
- EXHAUST GRILLE, RE: MECH.
- EXIT SIGN, RE: ELEC.

PRIMATE RESEARCH LAB  
SECOND FLOOR RENOVATION 2020  
UL PHYSICAL PLANT  
THE UNIVERSITY OF LOUISIANA AT LAFAYETTE  
P.O. BOX 4320  
LAFAYETTE, LOUISIANA 70504

project no. 2020.007.00  
date OCTOBER 2022  
designed by HS  
drawn by KB/SM  
checked by HS  
revised



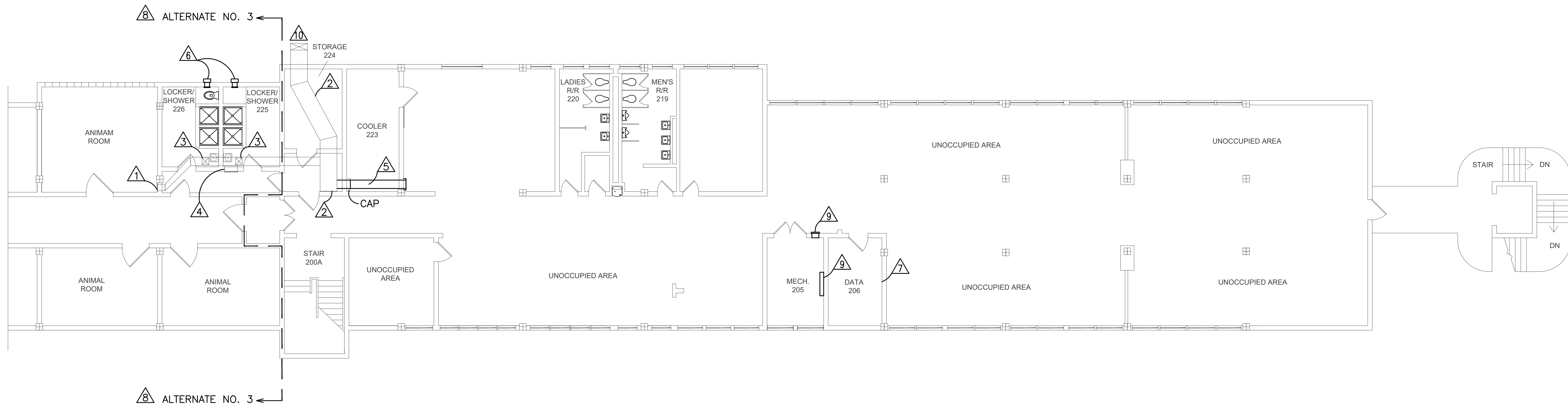
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A8.1

ARCHITECTURE INTERIOR DESIGN  
**MBSB**  
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MECHANICAL DEMOLITION  
PARTIAL SECOND FLOOR PLAN

SCALE: 0 4' 8'

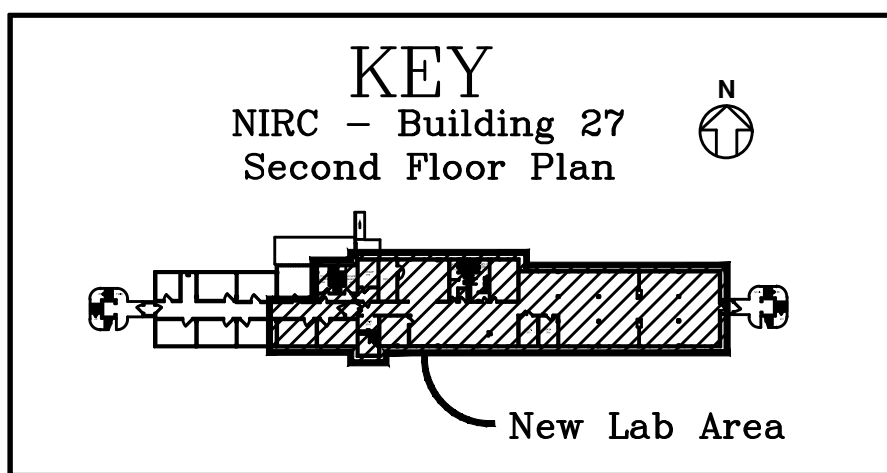
MECHANICAL DEMOLITION GENERAL NOTES:

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

1. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE FIELD AND SHALL MAKE ANY ADJUSTMENTS TO DUCTWORK/PIPING TO ACCOMMODATE NEW EQUIPMENT AND/OR EXISTING CONDITIONS. EXISTING CONDITIONS SHOWN ARE BASED UPON PLANS PROVIDED BY THE OTHERS.
2. CONTRACTOR SHALL MAKE ALL AREAS READY FOR NEW CONSTRUCTION AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR FULL SCOPE OF AREAS UNDER CONSTRUCTION.
3. OWNER SHALL HAVE THE OPTION TO RETAIN ANY ITEMS SLATED FOR REMOVAL. ANY ITEM THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF PROPERLY.
4. DEMOLITION PLAN DOES NOT REFLECT ALL EXISTING CONDITIONS. NOT ALL EXISTING EQUIPMENT IS SHOWN BUT WORK REGARDING THIS EQUIPMENT MAY BE REFERENCED ON THE DEMOLITION PLANS AND IN THESE NOTES. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES PRIOR TO BEGINNING ANY WORK.
5. CUT AND PATCH EXISTING SURFACES AS REQUIRED TO ACCOMMODATE DEMOLITION AND NEW CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL PATCH ALL HOLES LEFT IN FINISHED SURFACES TO MATCH ADJACENT CONSTRUCTION AND FINISHES UNLESS CALLED FOR NEW ON ARCHITECTURAL PLANS. REFER TO ARCHITECTURAL PLANS FOR NEW ON ADDITIONAL FINISH REQUIREMENTS.
6. PROTECT THE FLOOR, WALLS AND EXISTING EQUIPMENT FOR THE DURATION OF THE JOB.
7. PROVIDE ADDITIONAL STRUCTURAL STEEL AS REQUIRED TO SUPPORT NEW DUCTWORK FROM STRUCTURE. VERIFY ANGLE IRON/CHANNEL SUPPORT LOCATIONS WITH NEW DUCT REQUIREMENTS AND PROVIDE SUPPORT WHERE REQUIRED.
8. PHOTOGRAPH ALL AREAS OF CONSTRUCTION PRIOR TO BEGINNING WORK TO DOCUMENT EXISTING CONDITIONS, ESPECIALLY IN AREAS WHERE EXISTING DAMAGE IS PRESENT.

MECHANICAL DEMOLITION KEYNOTES:

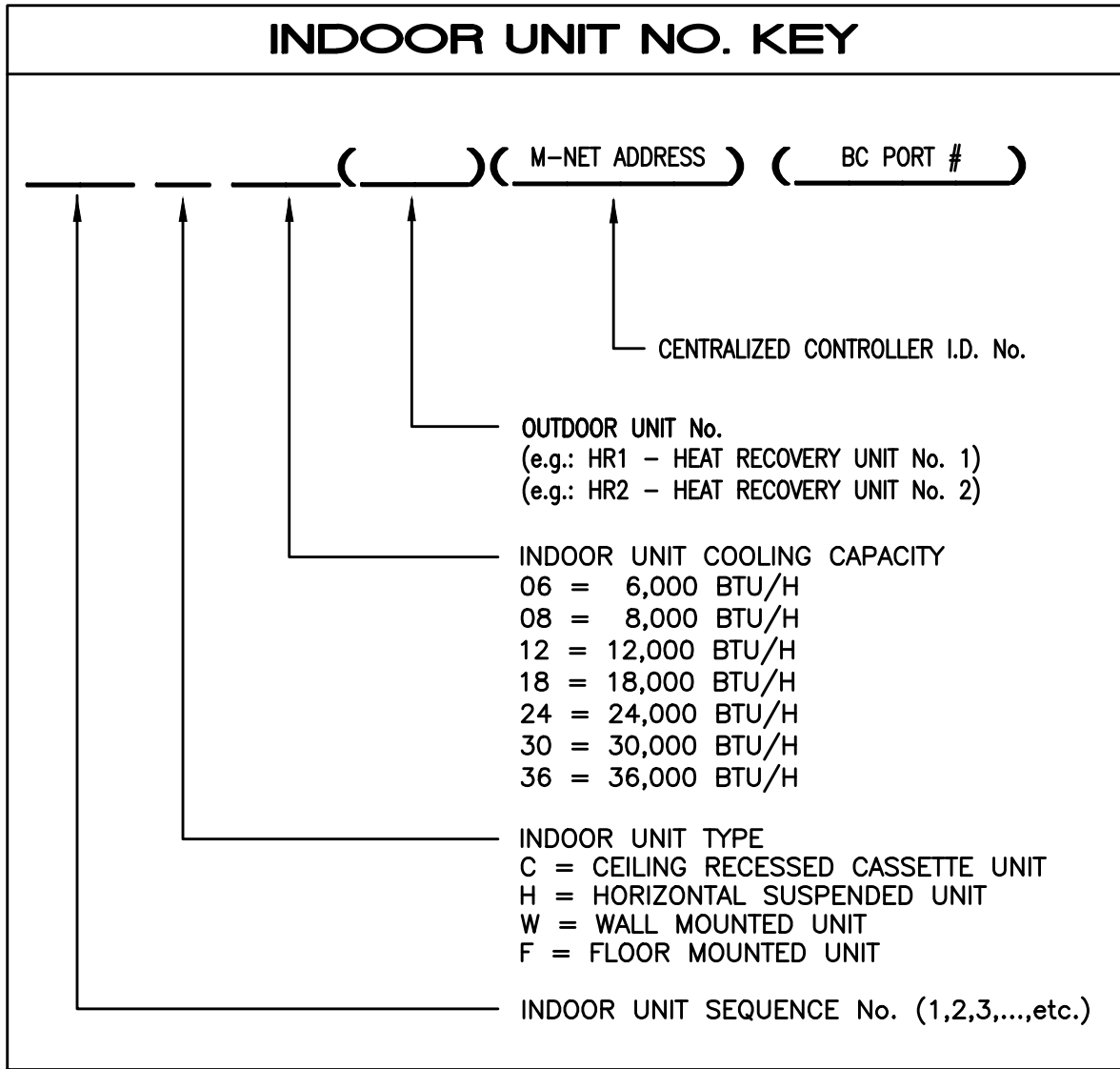
- 1 - EXISTING SUPPLY AIR GRILLE TO REMAIN.
- 2 - EXISTING SUPPLY DUCT AND ASSOCIATED GRILLES TO REMAIN UNLESS OTHERWISE NOTED. REDISTRIBUTE AIR FLOW TO REMAINING SPACES.
- 3 - REMOVE EXISTING SUPPLY GRILLE AND CAP EXISTING DUCT WITH INTERNALLY INSULATED SHEET METAL. PROVIDE NEW SUPPLY DIFFUSER COORDINATED WITH NEW CEILING GRID, SEE M.2.
- 4 - REMOVE EXISTING SIDEWALL SUPPLY GRILLE AND ASSOCIATED DUCTWORK UP TO MAIN TRUNK. CAP MAIN TRUNK WITH INTERNALLY INSULATED SHEET METAL. CAULK AND SEAL. PROVIDE NEW SUPPLY DIFFUSER COORDINATED WITH NEW CEILING GRID, SEE M.2.
- 5 - REMOVE PORTION OF EXISTING SUPPLY DUCT AS INDICATED. REMOVE EXISTING WOOD FURDOWN AS REQUIRED TO ACCOMMODATE DUCT REMOVAL. CAP MAIN TRUNK WITH SEALED INTERNALLY INSULATED SHEET METAL PATCH. CAULK AND SEAL.
- 6 - REMOVE EXISTING WALL MOUNTED EXHAUST FAN, DUCTWORK AND WALL CAP. UTILIZE EXISTING OPENING TO INSTALL NEW EXHAUST. PROVIDE 1/2 INCH, PRESSURE TREATED COVERING OVER OPENING AND INSTALL NEW EXHAUST WALL CAP. SEAL AROUND PENETRATION.
- 7 - EXISTING IT EQUIPMENT AND ROOM TO REMAIN IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO COORDINATE ALL PHASING OF WORK IN THIS AREA WITH OWNER. CONTRACTOR SHALL MAINTAIN DUST AND DEBRIS FREE AREA DURING CONSTRUCTION.
- 8 - ALL WORK IN THIS AREA SHALL BE PART OF (ALTERNATE NO.2).
- 9 - REMOVE EXISTING DUCT AND/OR GRILLE.
- 10 - COORDINATE FINAL LOCATION OF EXISTING THERMOSTAT IN FIELD WITH OWNER. RELOCATE AS REQUIRED.











VARIABLE REFRIGERANT FLOW (VRF) – HEAT RECOVERY – INDOOR UNIT SCHEDULE																				
UNIT NO.	SERVICE	BC CONTROLLER CONNECTION	FAN CFM		COOLING			HEATING										NOTES		
			HIGH	LOW	MIN. BTU/H OUTPUT	EAT (°F) DB WB	MIN. BTU/H OUTPUT	INDOOR TEMP.	ELECTRICAL SERVICE	FLA/MCA	SOUND LEVEL dB(A) HIGH LOW		UNIT CONTROL TSTAT OR INTERNAL SENSOR	COMMENTS						
1C24(1)(1)(1)	RM 201 – LAB	BC–1	812	636	24,000	80	67	27,000	70° D.B.	208–1–60	0.43/0.54	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–EP24NEMU–ER1 (3X3 CEILING RECESSED CASSETTE UNIT)					1–8
2C18(1)(2)(2)	RM 202 – LAB	BC–1	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
3C18(1)(3)(3)	RM 202 – LAB	BC–1	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
4C18(1)(4)(4)	RM 202 – LAB	BC–1	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
5W06(1)(5)(5)	RM 219 – MEN’S RESTROOM	BC–1	191	170	6,000	80	67	6,700	70° D.B.	208–1–60	0.19/0.24	36	32	WALL MOUNTED CONTROLLER	MITSUBISHI PKFY–P06NLMU–E (WALL MOUNTED CASSETTE UNIT)					1–8
6W06(1)(6)(6)	RM 220 – WOMEN’S RESTROOM	BC–1	191	170	6,000	80	67	6,700	70° D.B.	208–1–60	0.19/0.24	36	32	WALL MOUNTED CONTROLLER	MITSUBISHI PKFY–P06NLMU–E (WALL MOUNTED CASSETTE UNIT)					1–8
7C36(1)(7)(7)	RM 203 – LAB	BC–1	1095	777	36,000	80	67	40,000	70° D.B.	208–1–60	0.73/0.92	41	35	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–EP36NEMU–ER1 (3X3 CEILING RECESSED CASSETTE UNIT)					1–8
1C30(2)(8)(1)	RM 204 – LAB	BC–2	812	636	30,000	80	67	34,000	70° D.B.	208–1–60	0.45/0.57	35	28	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–EP30NEMU–ER1 (3X3 CEILING RECESSED CASSETTE UNIT)					1–8
2W06(2)(9)(2)	RM 205 – MECHANICAL ROOM	BC–2	210	170	6,000	80	67	6,700	70° D.B.	208–1–60	0.19/0.24	36	32	WALL MOUNTED CONTROLLER	MITSUBISHI PKFY–P06NLMU–E (WALL MOUNTED CASSETTE UNIT)					1–8
3W12(2)(10)(3)	RM 206 – DATA ROOM	BC–2	297	240	12,000	80	67	13,500	70° D.B.	208–1–60	0.19/0.24	41	24	WALL MOUNTED CONTROLLER	MITSUBISHI PKFY–P12NLMU–E (WALL MOUNTED CASSETTE UNIT)					1–8
4C18(2)(11)(4)	RM 216 – LAB	BC–2	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
5C18(2)(12)(5)	RM 217 – LAB	BC–2	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
6C18(2)(13)(6)	RM 218 – LAB	BC–2	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
7C18(2)(14)(7)	RM 221 – LAB	BC–2	812	636	24,000	80	67	27,000	70° D.B.	208–1–60	0.43/0.54	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–EP24NEMU–ER1 (3X3 CEILING RECESSED CASSETTE UNIT)					1–8
1C24(3)(15)(1)	RM 207 – LAB (SOUTH AREA)	BC–3	812	636	24,000	80	67	27,000	70° D.B.	208–1–60	0.43/0.54	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–EP24NEMU–ER1 (3X3 CEILING RECESSED CASSETTE UNIT)					1–8
2C24(3)(16)(2)	RM 207 – LAB (SOUTH AREA)	BC–3	812	636	24,000	80	67	27,000	70° D.B.	208–1–60	0.43/0.54	34	28	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–EP24NEMU–ER1 (3X3 CEILING RECESSED CASSETTE UNIT)					1–8
3C08(3)(17)(3)	RM 208 – BREAK ROOM	BC–3	315	230	8,000	80	67	9,000	70° D.B.	208–1–60	0.22/0.28	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P08NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
4C12(3)(18)(4)	RM 209A – WORK STATION	BC–3	335	245	12,000	80	67	13,500	70° D.B.	208–1–60	0.23/0.29	34	26	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P12NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
5C12(3)(19)(5)	RM 210 – OFFICE	BC–3	335	245	12,000	80	67	13,500	70° D.B.	208–1–60	0.23/0.29	34	26	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P12NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
6C12(3)(20)(6)	RM 211 – OFFICE	BC–3	335	245	12,000	80	67	13,500	70° D.B.	208–1–60	0.23/0.29	34	26	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P12NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
7C08(3)(21)(7)	RM 212 – CORRIDOR	BC–3	315	230	8,000	80	67	9,000	70° D.B.	208–1–60	0.22/0.28	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P08NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
8C18(3)(22)(8)	RM 213 – CONFERENCE ROOM	BC–3	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
9C08(3)(23)(9)	RM 214 – OFFICE	BC–3	315	230	8,000	80	67	9,000	70° D.B.	208–1–60	0.22/0.28	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P08NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
10C08(3)(24)(10)	RM 215 – OFFICE	BC–3	315	230	8,000	80	67	9,000	70° D.B.	208–1–60	0.22/0.28	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P08NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
11C08(3)(25)(11)	RM 209B – WORK STATION	BC–3	315	230	8,000	80	67	9,000	70° D.B.	208–1–60	0.22/0.28	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P08NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8
12C18(3)(26)(12)	RM 216 – LAB	BC–3	460	315	18,000	80	67	20,000	70° D.B.	208–1–60	0.40/0.50	43	33	WALL MOUNTED CONTROLLER	MITSUBISHI PLFY–P18NFMU–E (2X2 CEILING RECESSED CASSETTE UNIT)					1–8

NOTES:

- ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
- CEILING RECESSED UNITS (ONE–WAY AND FOUR–WAY) SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP. WALL UNIT PUMP SHALL BE INTERLOCKED WITH INDOOR UNIT.
- UNIT CONTROL: WALL MOUNTED CONTROLLER (WIRED REMOTE WALL MOUNTED CONTROLLER WITH INTERNAL TEMPERATURE SENSOR) OR UNIT’S INTERNAL SENSOR (NO WALL MOUNTED CONTROLLER, TEMPERATURE SENSED AT RETURN SENSOR). REFER TO PLANS FOR LOCATION AND QUANTITY OF WALL MOUNTED CONTROLLERS REQUIRED AS SOME UNITS SHARE A WALL MOUNTED CONTROLLER.
- UNIT SHALL BE PROVIDED WITH LONG LIFE FILTER IN UNIT. PROVIDE ONE (1) SPARE SET OF FILTERS WITH EACH INDOOR UNIT.
- ELECTRICAL DATA FOR BC CONTROLLER: BC CONTROLLER (CITY MULTI) = 1.89 AMPS. COORDINATE FINAL FIELD LOCATION OF BC WITH EXISTING CONDITIONS, EXTEND SERVICES AS REQUIRED.
- CONTRACTOR SHALL REMOVE PLASTIC CONDENSATE HOSE CLAMP (AT UNIT CONNECTION) ON EACH INDOOR UNIT. FURNISH AND INSTALL A STAINLESS STEEL HOSE CLAMP ON THE CONDENSATE DRAIN HOSE (AT THE UNIT CONNECTION) ON EACH INDOOR UNIT. THE STAINLESS STEEL HOSE CLAMP SHALL BE APPROPRIATELY SIZED TO CREATE A WATER TIGHT SEAL.
- ALL INDOOR UNITS SHALL HAVE AN IONIZATION DEVICE BY PLASMA AIR INSTALLED. DEVICES SHALL BE INSTALLED BY FACTORY REPRESENTATIVE.
- BC CONTROLLER PORT CONNECTION SHALL BE DETERMINED WHEN FINAL SHOP DRAWINGS ARE BEING PRODUCED.

VARIABLE REFRIGERANT FLOW (VRF) – HEAT RECOVERY – OUTDOOR UNIT SCHEDULE																				
M-NET ADDRESS	ZONE NO.	UNIT NO.	SERVICE	COOLING		HEATING				ELECTRICAL SERVICE	REFRIG.	MIN. EER	SOUND LEVEL dB(A)	MCA (AMPS)	FUSE SIZE (AMPS)	MOCp (AMPS)	COMMENTS	NOTES		
				MIN. BTUH OUTPUT	AMBIENT TEMP	MIN. BTUH OUTPUT	INDOOR TEMP	OUTDOOR D.B.*F W.B.*F												
51	1	HR-1	2ND FLOOR – EAST SIDE	144,000	95°F	160,000	70°F	47°F	43°F	208-3-60	R410-A	11.6	65	52	60	80	MITSUBISHI CITY MULTI PURY-P120TNU-A (SIMULTANEOUS COOLING AND HEATING)	1-10		
58	2	HR-2	2ND FLOOR – MIDDLE SIDE	144,000	95°F	160,000	70°F	47°F	43°F	208-3-60	R410-A	11.6	65	52	60	80	MITSUBISHI CITY MULTI PURY-P120TNU-A (SIMULTANEOUS COOLING AND HEATING)	1-10		
66	3	HR-3	2ND FLOOR – WEST SIDE	144,000	95°F	160,000	70°F	47°F	43°F	208-3-60	R410-A	11.6	65	52	60	80	MITSUBISHI CITY MULTI PURY-P120TNU-A (SIMULTANEOUS COOLING AND HEATING)	1-10		

NOTES:

- MAXIMUM DISTANCE BETWEEN COMBINED UNITS ON ONE REFRIGERANT SYSTEM – 32 FEET.
- INSULATE SUCTION, LIQUID AND RECOVERY REFRIGERANT LINES.
- INSTALL BC CONTROLLER(CITY–MULTI) FOR EACH CONDENSING UNIT AS REQUIRED BY MANUFACTURER’S SPECIFICATIONS CMB–P106NU–J1
- ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
- INSTALLATION OF REFRIGERANT PIPING, CONTROL WIRING, POWER WIRING, ETC. SHALL BE INSTALLED PER MANUFACTURER’S RECOMMENDATIONS.
- EACH INDIVIDUAL OUTDOOR UNIT REQUIRES A DEDICATED ELECTRICAL CIRCUIT.
- ANCHOR UNITS TO VIBRATION ISOLATION SUPPORT. ANCHOR VIBRATION ISOLATION SUPPORT TO CONCRETE PAD.
- COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- EFFICIENCY VALUES OF EER, IEER, COPO ARE BASED ON AHRI 1230 TEST METHOD OF MIXTURE OF DUCTED AND NON–DUCTED INDOOR UNITS.
- FOR SYSTEMS OF MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.

DEDICATED 100% OUTSIDE AIR - VARIABLE REFRIGERANT FLOW (VRF) - INDOOR UNIT SCHEDULE																			
M-NET ADDRESS	UNIT NO.	SERVICE	BC CONTROLLER	FAN		COOLING		HEATING			REHEAT	ELECTRICAL SERVICE	MCA/ MOP (AMPS)	SOUND LEVEL dB(A)		COMMENTS	NOTES		
				CFM	E.S.P	MIN. BTUH OUTPUT	EAT (°F)		MIN. BTU/H OUTPUT	EAT (°F)	LAT (°F)			MIN. BTUH OUTPUT	HIGH			LOW	
							DB	WB											
27	OA-AHU	2ND FLOOR LAB AREA	BCA-OA	1200	0.8"	112,000	95	80	61,400	26	78	24,200	208-1-60	3.99/15	41	36	MITSUBISHI CITY MULTI PEFY-AF1200CFMR-E (DEDICATED OUTSIDE AIR UNIT WITH HOT GAS REHEAT)	1-5	

NOTES:

- ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT THE UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
- UNIT SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.
- ELECTRICAL DATA FOR BC CONTROLLERS: MCA = 0.85A. COORDINATE FINAL FIELD LOCATION OF BC WITH EXISTING CONDITIONS, EXTEND SERVICES AS REQUIRED.
- UNIT L.A.T. AFTER HOT GAS REHEAT COIL SHALL BE NEUTRAL (±78° F ADJUSTABLE).
- PROVIDE FILTER RACK ON INTAKE OF AHU WITH HINGED ACCESS AND 2" 30% PLEATED FILTERS. PROVIDE TWO (2) SETS OF SPARE FILTERS TO BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.

DEDICATED 100% OUTSIDE AIR - VARIABLE REFRIGERANT FLOW (VRF) - OUTDOOR UNIT SCHEDULE																		
M-NET ADDRESS	UNIT NO.	SERVICE	COOLING		HEATING			ELECTRICAL SERVICE	REFRIG.	EER	CDU E.S.P.	SOUND LEVEL dB(A)	MCA (AMPS)	FUSE SIZE (AMPS)	FUSE SIZE (AMPS)	COMMENTS	NOTES	
			MIN. BTUH OUTPUT	AMBIENT TEMP	MIN. BTUH OUTPUT	INDOOR TEMP	OUTDOOR D.B.'F   W.B.'F											
78	OA-HR	2ND FLOOR LAB AREA	120,000	95°F	135,000	70°F	47°F   43°F	208-3-60	R410-A	12.1	0"	60	43	50	70	MITSUBISHI CITY MULTI PURY-P120TNU-A (HEAT RECOVERY)	1-7	

NOTES:

- INSULATE SUCTION, LIQUID AND RECOVERY REFRIGERANT LINES.
- INSTALL BC CONTROLLER ON EACH CONDENSING UNIT AS REQUIRED BY MANUFACTURER’S SPECIFICATIONS.
- ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT THE UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ON MANUFACTURER SELECTED FOR THE PROJECT. INSTALLATION OF THE REFRIGERANT PIPING, CONTROL WIRING, POWER WIRING, ETC. SHALL BE INSTALLED PER MANUFACTURER’S RECOMMENDATIONS.
- ANCHOR UNITS TO VIBRATION ISOLATION SUPPORT AND ANCHOR ISOLATION SUPPORT TO CONCRETE PAD.
- EFFICIENCY VALUES OF EER, IEER, COPO ARE BASED ON AHRI 1230 TEST METHOD OF MIXTURE OF DUCTED AND NON–DUCTED INDOOR UNITS.
- FOR SYSTEMS OF MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.

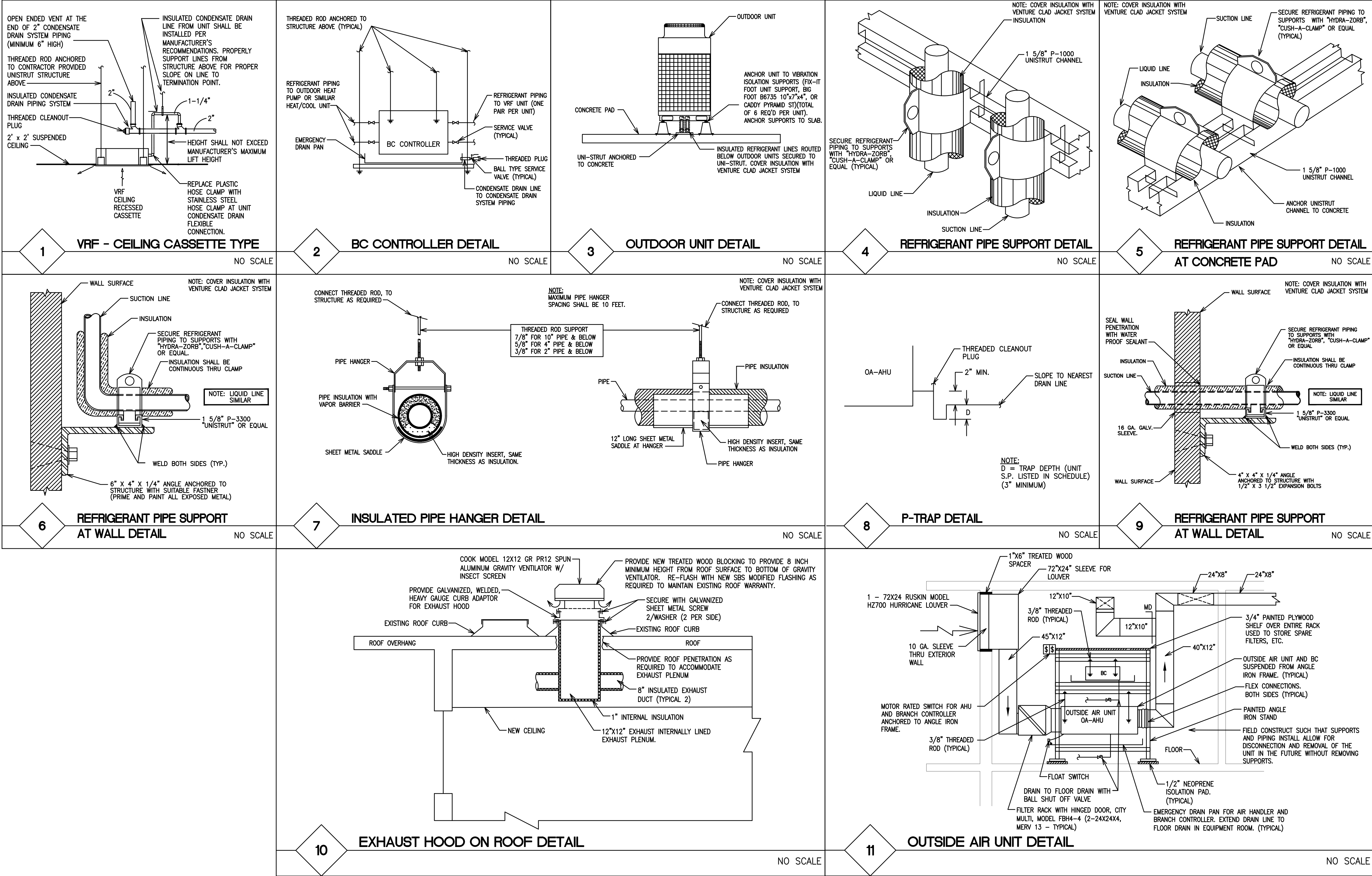


DIFFUSER SCHEDULE									
SYMBOL	SIZE	SERVICE	LOCATION	FINISH	O.B.D	MOUNT	COMMENTS		NOTES
A	8" X 8"	SUPPLY	CEILING	WHITE	O.B.D	SURFACE	TITUS 300FS-1-26-AG-15-AA, OR PRIOR APPROVED EQUAL.		1,2
B	10" X 10"	SUPPLY	CEILING	WHITE	O.B.D	SURFACE	TITUS 300FS-1-26-AG-15-AA, OR PRIOR APPROVED EQUAL.		1,2
C	12" X 12"	SUPPLY	CEILING	WHITE	O.B.D	SURFACE	TITUS 300FS-1-26-AG-15-AA, OR PRIOR APPROVED EQUAL.		1,2

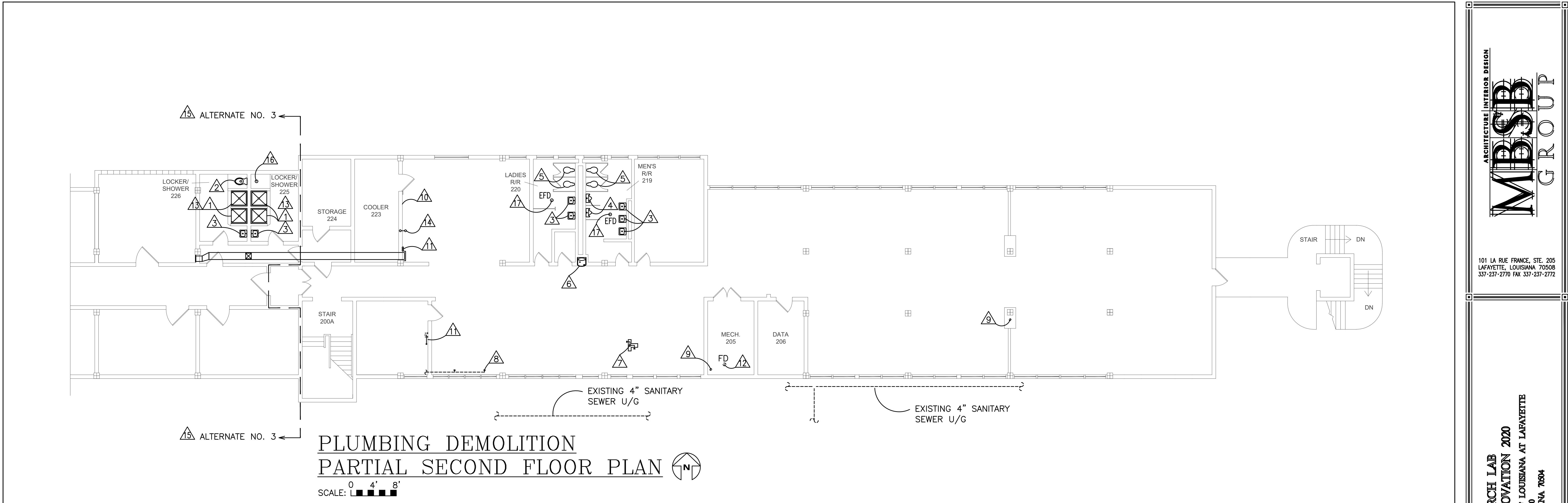
- NOTES:
1. PROVIDE INSULATED PLENUM BEHIND DIFFUSER TO ACCEPT SIDE PENETRATING SUPPLY DUCT.
  2. COORDINATE LOCATION OF GRILLE WITH NEW CEILING GRID LAYOUT.

FAN SCHEDULE													
NO	SERVICE	MIN. CFM	EXT. S.P.	RPM	SONES	FAN WATTS	TYPE	DRIVE	ELECTRIC SERVICE	CONTROL	SENSORS	COMMENTS	NOTES
										SWITCH	TIME DELAY		
EF-1	ROOM 219 - MEN'S RESTROOM	280	0.25"	900	0.7	22	CEILING	DIRECT	120-1-60	MOTION	15 MIN.	COOK MODEL GEMINI OR APPROVED EQUAL	1-3
EF-2	ROOM 220 - WOMEN'S RESTROOM	150	0.25"	900	0.7	22	CEILING	DIRECT	120-1-60	MOTION	15 MIN.	COOK MODEL GEMINI OR APPROVED EQUAL	1-3
EF-3	ROOM 225 - SHOWER/LOCKER	225	0.25"	900	0.7	22	CEILING	DIRECT	120-1-60	MOTION	15 MIN.	COOK MODEL GEMINI OR APPROVED EQUAL	1-3
EF-4	ROOM 226 - SHOWER/LOCKER	225	0.25"	900	0.7	22	CEILING	DIRECT	120-1-60	MOTION	15 MIN.	COOK MODEL GEMINI OR APPROVED EQUAL	1-3
EF-5,6	LAB ROOMS - 217, 218	125	0.25"	900	0.7	22	CEILING	DIRECT	120-1-60	SWITCH	-	COOK MODEL GEMINI OR APPROVED EQUAL	1-3

- NOTES:
1. PROVIDE SPEED CONTROLLER MOUNTED ON FAN OR ECM MOTOR FOR BALANCING.
  2. ALL FANS SHALL BE COMPLETE WITH FIELD INSTALLED SHEET METAL BACK DRAFT DAMPER.
  3. FANS EF-1 THRU EF-4 SHALL BE COMPLETE WITH PAINT GRIP SHEET METAL WALL CAP WITH BIRD SCREEN, WEATHER HOOD.
  4. EF-5 AND EF-6 FIELD LOCATE FAN SWITCH.







PLUMBING DEMO GENERAL NOTES:

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE FIELD AND SHALL MAKE ANY ADJUSTMENTS TO PIPING TO ACCOMMODATE NEW EQUIPMENT AND/OR EXISTING CONDITIONS. EXISTING CONDITIONS SHOWN ARE BASED UPON PLANS PROVIDED BY THE OTHERS.
- CONTRACTOR SHALL MAKE ALL AREAS READY FOR NEW CONSTRUCTION AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR FULL SCOPE OF AREAS UNDER CONSTRUCTION.
- OWNER SHALL HAVE THE OPTION TO RETAIN ANY ITEMS SLATED FOR REMOVAL. ANY ITEM THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF PROPERLY.
- DEMOLITION PLAN DOES NOT REFLECT ALL EXISTING CONDITIONS, NOT ALL EXISTING EQUIPMENT IS SHOWN BUT WORK REGARDING THIS EQUIPMENT MAY BE REFERENCED ON THE DEMOLITION PLANS AND IN THESE NOTES. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES PRIOR TO BEGINNING ANY WORK.
- CUT AND PATCH EXISTING SURFACES AS REQUIRED TO ACCOMMODATE DEMOLITION AND NEW CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL PATCH ALL HOLES LEFT IN FINISHED SURFACES TO MATCH ADJACENT CONSTRUCTION AND FINISHES UNLESS CALLED FOR NEW ON ARCHITECTURAL PLANS. REFER TO ARCHITECTURAL PLANS FOR FINISH REQUIREMENTS.
- TRACE ALL EXISTING UTILITIES PRIOR TO DEMOLITION TO IDENTIFY EXISTING LINE SIZES AND ROUTING TO AVOID UNNECESSARY DEMOLITION. EXISTING UTILITIES NO LONGER IN SERVICE DUE TO THE REMOVAL OF EQUIPMENT UNDER THIS SCOPE SHALL BE REMOVED AND THE AREA CLEARED OF ALL EXISTING ABANDONED PIPING. PRIOR TO DEMOLITION, CONTRACTOR SHALL VERIFY THAT THE PIPING TO BE REMOVED DOES NOT SERVICE EXISTING EQUIPMENT NOT WITHIN THE SCOPE OF THIS PROJECT SCHEDULED TO REMAIN. CONTRACTOR SHALL SCOPE ALL EXISTING SEWER LINES SCHEDULED TO BE REMOVED WITH A CAMERA TO ENSURE LINES DO NOT GO BEYOND AREA OF CONSTRUCTION. IF PIPING IS FOUND TO SERVE AREAS BEYOND AREA OF CONSTRUCTION, ENGINEER/ARCHITECT SHALL BE CONTACTED FOR DIRECTION.
- EXISTING ROOFTOP PLUMBING VENTS MAY BE REUSED FOR NEW PLUMBING. VENTS THAT ARE NOT REUSED AND NO LONGER SERVE FIXTURES SHALL BE CAPPED ON ROOF.
- CONTRACTOR SHALL SAW CUT AND PATCH SLAB AS REQUIRED FOR INSTALLATION OF NEW AND REMOVAL OF EXISTING BELOW SLAB SEWER LINES. PATCHING SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PLANS SUCH THAT AREA CAN BE PREPPED FOR NEW FLOORING.
- ROUT AND FLUSH SECTIONS OF SEWER LINES SCHEDULED TO BE REUSED SERVING AREAS OF NEW CONSTRUCTION. PROVIDE CAMERA SCOPE OF ALL LINES TO ENSURE THEY ARE RUNNING CLEAR WITH NO OBSTRUCTIONS OR DIPS PRIOR TO COMPLETION OF PROJECT.
- ALL UTILITIES FOR FIXTURES SCHEDULED TO BE REMOVED SHALL BE CUT AND CAPPED FLUSH WITH FINISHED SURFACES, EXCEPT AS OTHERWISE NOTED ABOVE. REMOVAL OF FIXTURES SHALL INCLUDE ALL ACCESSORIES, VALVES, ETC. ASSOCIATED WITH THESE FIXTURES.
- PROTECT THE FLOOR, WALLS AND EXISTING EQUIPMENT FOR THE DURATION OF THE JOB.
- PHOTOGRAPH ALL AREAS OF CONSTRUCTION PRIOR TO BEGINNING WORK TO DOCUMENT EXISTING CONDITIONS, ESPECIALLY IN AREAS WHERE EXISTING DAMAGE IS PRESENT.

PLUMBING GENERAL NOTES: (APPLIES TO P.2 AND P.3)

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

- FURNISH AND INSTALL ALL EQUIPMENT/PLUMBING FIXTURES AS INDICATED BY THESE DRAWINGS. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED. FOR EQUIPMENT FURNISHED BY OTHERS, CONTRACTOR SHALL VERIFY ALL UTILITY CONNECTIONS IN THE FIELD.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND INVERTS OF ALL EXISTING SERVICES IN FIELD PRIOR TO MAKING ROUGH-INS. FAILURE TO DO SO MAY RESULT IN THE BREAKING OF SLAB AT CONTRACTOR'S EXPENSE.
- THE ROUTING OF ALL PIPING SHALL BE COORDINATED WITH ALL THE OTHER TRADES TO AVOID POSSIBLE CONFLICTS. OFFSET PIPING AS REQUIRED.
- ALL DOMESTIC WATER PIPING SHALL BE RUN ABOVE THE CEILING AND/OR CONCEALED IN WALLS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE SPACE REQUIREMENTS AND SERVICE CLEARANCES FOR ALL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS.
- CONTRACTOR SHALL CONSOLIDATE VENTS TO MINIMIZE PENETRATIONS THROUGH ROOF. LOCATE VENTS A MINIMUM OF 10 FEET FROM FRESH AIR OPENINGS. VENT PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
- AT EACH FIXTURE OR GROUP OF FIXTURES (WITHIN SAME CHASE), FURNISH AND INSTALL A 12" HIGH AIR CHAMBER OF SAME SIZE AS BRANCH FEED LINE. PROVIDE "SHOCK ARRESTOR" AT ALL FIXTURES WITH QUICK CLOSING VALVES SUCH AS FLUSH VALVES, ETC.
- PROVIDE CHROME PLATED BRASS ESCUTCHEONS WHERE PIPES PENETRATE FINISHED SURFACES.
- CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXTERIOR WALLS WEATHER TIGHT. SEALANT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH WALL, FLOOR, BEAMS, FOOTINGS, ETC AS SPECIFIED. ALL METAL PIPING PASSING THROUGH CONCRETE SLAB SHALL BE WRAPPED AS SPECIFIED.
- NO WATER OR DRAIN LINES MAY BE RUN ABOVE ELECTRICAL PANELS OR COMMUNICATION PANELS. COORDINATE WITH ELECTRICAL PLANS AND OFFSET PIPING IN THE FIELD AS REQUIRED.
- ALL EXPOSED PIPING, PIPE HANGERS, SUPPORTS, ETC RUN THROUGH FINISHED SPACES AND AT EXTERIOR SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT.
- CONTRACTOR SHALL PROVIDE VALVES, UNIONS, STOPS, CONNECTIONS AS REQUIRED TO ALL EQUIPMENT. PROVIDE VALVES ON INLET AND OUTLET SIDE OF ALL EQUIPMENT AND FIXTURES.
- FURNISH AND INSTALL ACCESS PANELS WHERE VALVES, EQUIPMENT, ETC MAY BE CONCEALED OR INACCESSIBLE. ACCESS PANEL SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT. ACCESS PANELS IN RESTROOMS SHALL BE STAINLESS STEEL.
- COORDINATE HEIGHT OF ALL HVAC CONDENSATE ABOVE CEILING WITH MECHANICAL CONTRACTOR.
- REFER TO ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT OF ALL PLUMBING FIXTURES.

PLUMBING DEMOLITION KEYNOTES:

1 - EXISTING BLOCK WALL AROUND SHOWER TO REMAIN. REMOVE EXISTING SHOWER HEAD, HOT AND COLD WATER SUPPLIES. SAW CUT EXISTING BLOCK WALL AND MODIFY EXISTING HOT AND COLD WATER SUPPLY AS REQUIRED TO ACCOMMODATE NEW INSTITUTIONAL SHOWER SYSTEM. SEAL AROUND SYSTEM AT WALL.

2 - REMOVE AND REPLACE EXISTING WATER CLOSET IN ITS ENTIRETY, INCLUDING SUPPLY STOP, MOUNTING BRACKET AND SEAL. INSTALL NEW FIXTURE, STOPS, MOUNTING BRACKET, AND SEAL.

3 - REMOVE AND REPLACE EXISTING WALL MOUNTED LAVATORY IN ITS ENTIRETY, INCLUDING SUPPLY STOPS, AND WALL BRACKET. EXISTING HOT AND COLD WATER SUPPLY PIPING TO REMAIN. MODIFY AS REQUIRED TO ACCOMMODATE NEW FIXTURE. PROVIDE ASSE 1070 MIXING VALVE ON HOT WATER.

4 - REMOVE AND REPLACE EXISTING WALL MOUNTED URINAL IN ITS ENTIRETY, INCLUDING FLUSH VALVE AND MOUNTING BRACKET. EXISTING SEWER AND COLD WATER SUPPLY PIPING TO REMAIN. MODIFY AS REQUIRED TO ACCOMMODATE NEW FIXTURE AND BRACKET.

5 - REMOVE AND REPLACE EXISTING FLOOR MOUNTED REAR OUTLET WATER CLOSET IN ITS ENTIRETY, INCLUDING FLUSH VALVE, MOUNTING BRACKET, AND SEAL. EXISTING SEWER AND COLD WATER SUPPLY PIPING TO REMAIN. MODIFY AS REQUIRED TO ACCOMMODATE NEW FIXTURE, BRACKET, AND SEAL.

6 - REMOVE EXISTING WALL MOUNTED DRINKING FOUNTAIN IN ITS ENTIRETY INCLUDING WATER SUPPLY AND DRAIN. CAP EXISTING SERVICES BEHIND FINISHED SURFACES.

7 - REMOVE EXISTING SEWER AND WATER IN BLOCK WALL. CAP ALL SERVICES BEHIND FINISHED SURFACES. RE-ROUTE EXISTING VENT STACK TO ADJACENT WALL (CONCEALED).

8 - REMOVE EXPOSED DRAIN INCLUDING HOT AND COLD WATER SUPPLY PIPING. CAP SERVICES BEHIND FINISHED SURFACES.

9 - EXISTING VENT PIPING TO REMAIN.

10 - REMOVE EXISTING SEWER INCLUDING HOT AND COLD WATER SUPPLY PIPING. CAP BEHIND FINISHED SURFACES.

11 - MODIFY EXISTING SEWER AS REQUIRED TO ACCOMMODATE NEW FIXTURE. REMOVE AND REPLACE EXISTING HOT AND COLD WATER SUPPLIES BEHIND FINISHED SURFACES.

12 - EXISTING FLOOR DRAIN TO REMAIN. CONTRACTOR SHALL VIDEO DRAIN LINE AND DETERMINE EXISTING CONDITIONS. ADJUST TOP FLUSH WITH NEW FINISHED FLOOR.

13 - EXISTING FLOOR DRAIN TO REMAIN. PROVIDE NEW GRATE. ADJUST TOP FLUSH WITH NEW FINISHED FLOOR.

14 - REMOVE AND CAP EXISTING 4" WASTE AND VEND BEHIND FINISHED SURFACES. PROVIDE CAP FOR VENT ON ROOF.

15 - ALL WORK IN THIS AREA SHALL BE PART OF (ALTERNATE NO.2).

16 - CONTRACTOR SHALL CLEAN EXISTING SANITARY SEWER ASSOCIATED WITH EXISTING WATER CLOSET AND VERIFY CONDITION OF SEWER.

17 - EXISTING FLOOR DRAIN (EFD) TO REMAIN. PROVIDE NEW GRATE. ADJUST TOP FLUSH WITH NEW FINISHED FLOOR.

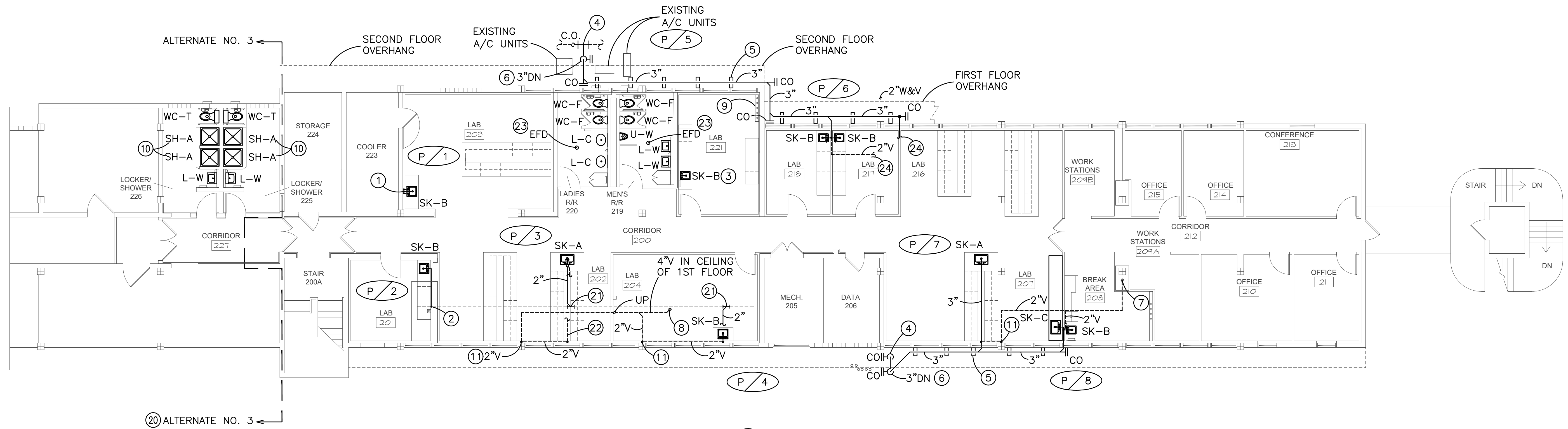
KEY

NIRC - Building 27

Second Floor Plan

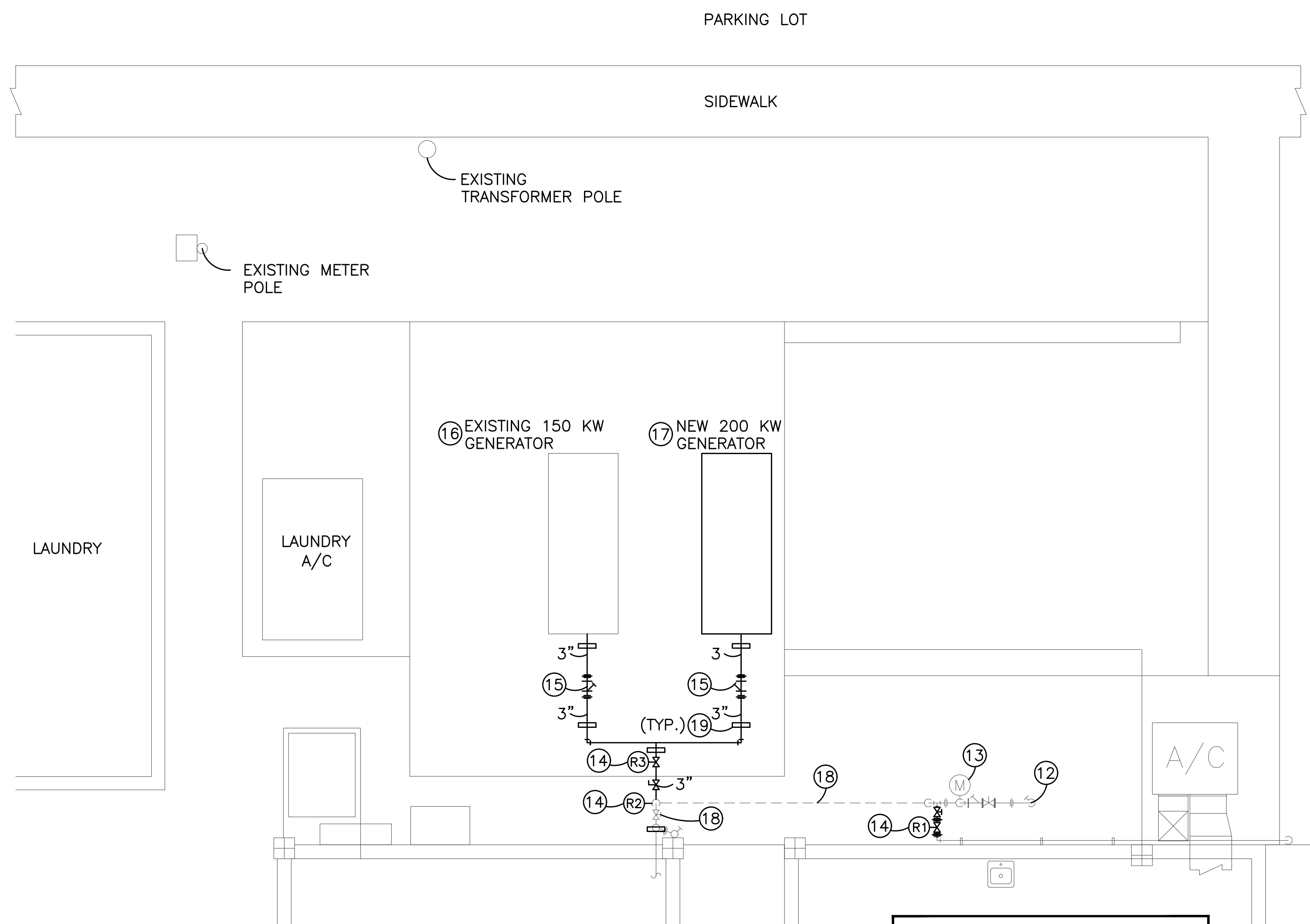
New Lab Area





# PLUMBING NEW SANITARY PARTIAL SECOND FLOOR PLAN

SCALE: 0 4' 8'



# PLUMBING NEW GAS PIPING PARTIAL SITE PLAN

SCALE: 0 2' 4'

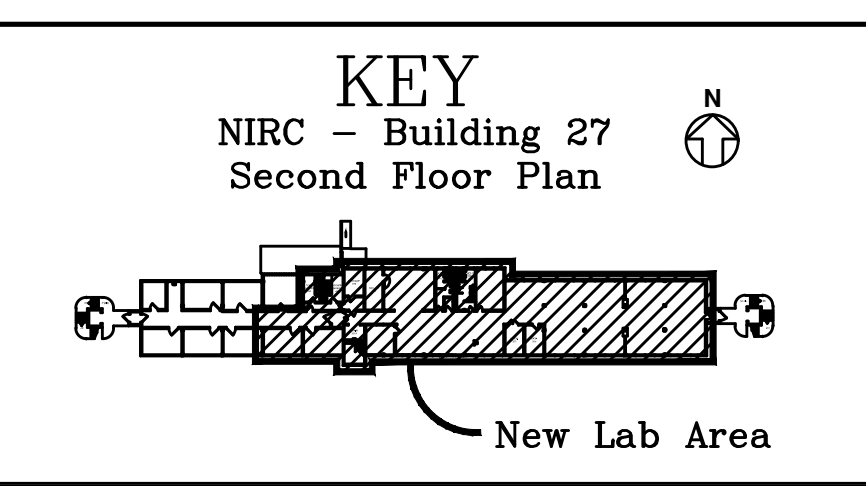


## NOTE:

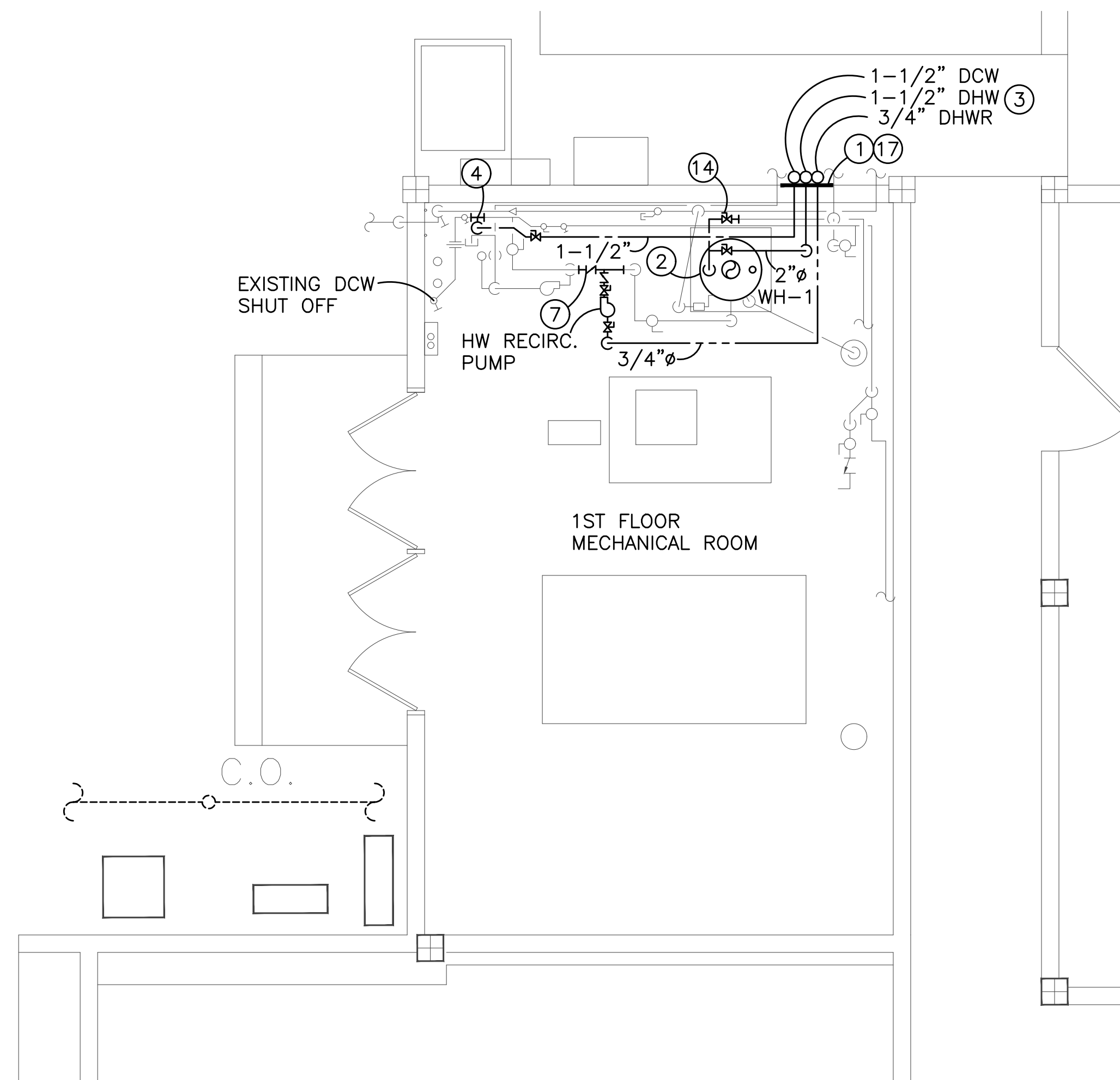
REFER TO DETAIL 7, SHEET P.4  
FOR DEMOLITION AND NEW GAS  
PIPING MODIFICATIONS

## NEW PLUMBING KEYNOTES:

- CONNECT TO EXISTING WASTE AND VENT IN VICINITY. PROVIDE NEW 3/8 INCH HOT AND COLD WATER SUPPLY STOPS DOWN IN WALL. FROM CEILING.
- CONNECT TO EXISTING WASTE AND VENT IN VICINITY AND EXTEND NEW 2 INCH DRAIN TO NEW SINK LOCATION. PROVIDE NEW HOT AND COLD WATER SUPPLIES WITH NEW 3/8 INCH COPPER PIPING COMPLETE WITH NEW SUPPLY STOPS.
- CONNECT TO EXISTING WASTE AND VENT IN PLUMBING CHASE. PROVIDE NEW HOT AND COLD WATER SUPPLIES WITH NEW 3/8 INCH COPPER PIPING COMPLETE WITH NEW SUPPLY STOPS.
- CONNECT TO EXISTING SANITARY SEWER UNDERGROUND. VERIFY EXACT LOCATION IN PRIOR TO EXCAVATING.
- SUPPORT NEW SANITARY SEWER PIPING AGAINST EXTERIOR WALL REFER TO DETAIL, SHEET P.4.
- ROUTE NEW SANITARY SEWER TO EDGE OF OVER HANG AND DROP DOWN. PROVIDE CLEANOUT. TURN TOWARDS EXTERIOR WALL OF 1ST FLOOR AND DROP DOWN AT WALL TO BELOW GRADE AND TURN TOWARDS EXISTING UNDERGROUND SANITARY SEWER. REFER TO DETAILS. COORDINATE EXACT ROUTING IN FIELD WITH EXISTING CONDITIONS.
- CONNECT TO VENT ABOVE CEILING. COORDINATE ROUTING OF NEW VENTING WITH NEW HVAC AND WATER LINES ABOVE CEILING.
- REROUTE EXISTING 4 INCH VENT STACK AT CEILING OF 1ST FLOOR AND RISE UP ALONG MECHANICAL ROOM WALL TO ABOVE CEILING AND ROUTE TO EXISTING PENETRATION IN ROOF.
- REFER TO SHEET P.3 FOR ROUTING OF DCW/DHW/DHWR.
- PROVIDE NEW STAINLESS STEEL SURFACED MOUNTED WALL SHOWER ASSEMBLY MOUNTED ON EXISTING SHOWER WALL. SILICONE SEAL AROUND UNIT.
- 2 INCH VENT UP IN WALL. TURN BELOW WINDOW AND ROUTE TO NEAREST CHASE AT COLUMN. RISE UP TO ABOVE CEILING.
- COORDINATE WITH UTILITY COMPANY FOR REMOVAL OF EXISTING PRESSURE REGULATOR. PROVIDE NEW PAINTED GAS PIPING.
- EXISTING GAS METER TO REMAIN. PLUMBING CONTRACTOR SHALL COORDINATE WITH GAS COMPANY (ATMOS) TO INSURE GAS METER IS ADEQUATE TO SERVE A DEMAND OF (7200 CFH AT 2 PSI INLET PRESSURE). CONTRACTOR SHALL PAY ALL COST FOR UTILITY COMPANY TO MODIFY EXISTING GAS SERVICE AS REQUIRED TO ACCOMMODATE NEW GAS LOAD.
- NEW GAS PRESSURE REGULATOR COMPLETE WITH UNION CONNECTIONS AND SHUT OF VALVE. REFER TO DETAIL 7, SHEET P.4 FOR PIPING MODIFICATIONS.
- NEW GAS STRAINER COMPLETE WITH UNIONS.
- EXISTING NATURAL GAS GENERATOR (150KW) TO REMAIN. RE-PIPE EXISTING GAS AS REQUIRED TO ACCOMMODATE NEW GENERATOR.
- NEW NATURAL GAS GENERATOR (200KW) MOUNTED ON CONCRETE. PROVIDE NEW 2 INCH GAS PIPING COMPLETE WITH GAS STRAINER.
- EXISTING NATURAL GAS PIPING TO REMAIN.
- MOUNT GAS PIPING TO CONCRETE SLAB WITH GALVANIZED 1-5/8" UNISTRUT SECURED TO CONCRETE WITH GALVANIZED PIPING CLAMPS.
- ALL WORK IN THIS AREA SHALL BE PART OF (ALTERNATE NO.2).
- CONNECT TO EXISTING SEWER AT CEILING LEVEL OF 1ST FLOOR. VERIFY EXACT LOCATION AND CONNECTION SIZE IN FIELD.
- ROUTE 2" VENT IN LAB CABINET CENTER SECTION TO EXTERIOR WALL.
- EXISTING FLOOR DRAIN (EFD) TO REMAIN. PROVIDE NEW GRATE AND TRAP GUARD. ADJUST TOP FLUSH WITH NEW FINISHED FLOOR.
- CONNECT NEW VRF CONDENSATE DRAIN PIPING.
- CONNECT TO NEAREST VENT STACK ON ROOF. VERIFY EXACT LOCATION IN FIELD.

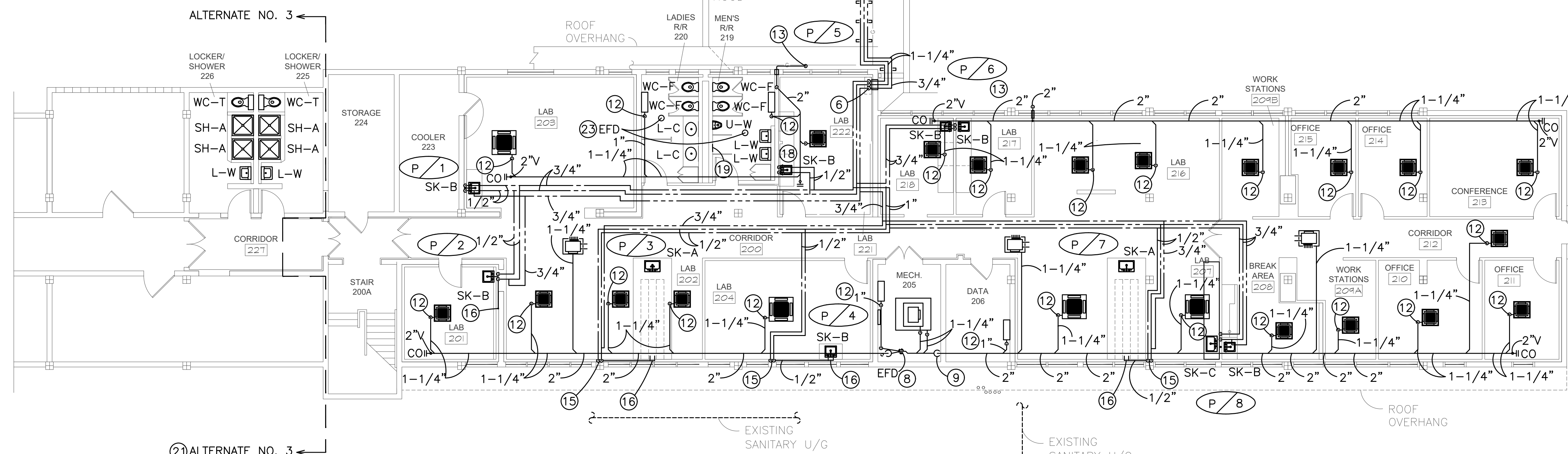






## PLUMBING NEW DCW/DHW/CONDENSATE PARTIAL FIRST FLOOR PLAN

SCALE: 0 2' 4'



## PLUMBING NEW HW/CW/CONDENSATE PARTIAL SECOND FLOOR PLAN

SCALE: 0 4' 8'

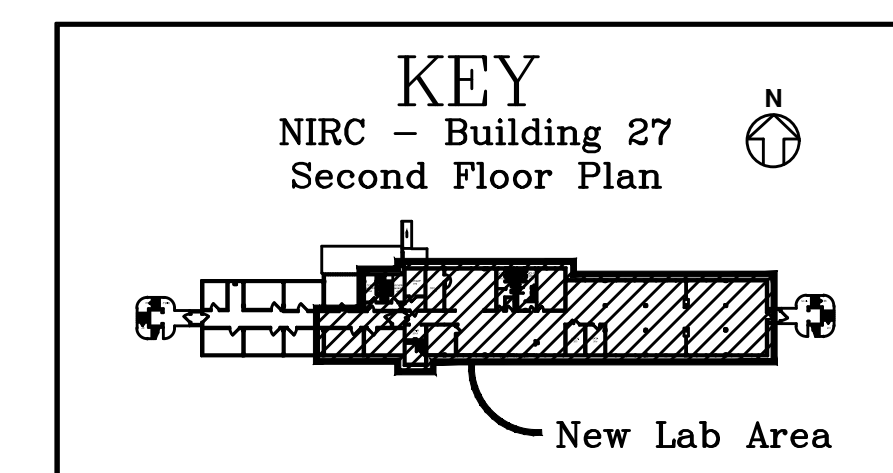


### PLUMBING DEMOLITION KEYNOTES:

- ① - PROVIDE PVC SLEEVE AT ALL PENETRATIONS. CAULK AND SEAL.
- ② - PROVIDE NEW 75 GALLON, GAS FIRED WATER HEATER COMPLETE WITH EMERGENCY DRAIN PAN. ROUTE NEW COPPER DRAIN FROM PAN TO NEAREST FLOOR DRAIN. SUPPORT DRAIN AT FLOOR PER DETAILS. PROVIDE NEW T&P RELIEF VALVE AND VENT TO EXTERIOR WALL. MODIFY EXISTING FLUE VENT AS REQUIRED.
- ③ - PENETRATE EXISTING WALL LOUVER AND RISE UP ABOVE ROOF LEVEL.
- ④ - CONNECT TO EXISTING DOMESTIC COLD WATER SUPPLY LINE IN VICINITY.
- ⑤ - DOMESTIC WATER PIPE ROOF SUPPORTS. REFER TO DETAIL 2, SHEET P.4.
- ⑥ - PENETRATE EXTERIOR WALL AND RISE IN CHASE TO ABOVE CEILING LEVEL. COORDINATE ROUTING WITH NEW EXHAUST DUCTWORK IN CHASE.
- ⑦ - CONNECT TO EXISTING DOMESTIC HOT WATER RE-CIRCULATION RETURN LINE IN VICINITY. REFER TO DETAILS 5 ON SHEET P.4.
- ⑧ - TERMINATE INDEPENDENT (VRF HVAC SYSTEM) CONDENSATE DRAIN PIPING INTO EXISTING FLOOR DRAIN (EFD) IN MECHANICAL ROOM 205.
- ⑨ - CONDENSATE DRAIN LINE DOWN EXPOSED IN MECHANICAL ROOM. RUN BELOW O.A. AHU TO FLOOR DRAIN (EFD).
- ⑩ - REFER TO PLUMBING DETAILS AND PLUMBING RISER DIAGRAMS ON SHEET M.4.
- ⑪ - PROPERLY SLEEVE PIPING THRU FIRE RATED WALL. INSTALL FIRE RATED SEALANT AT FIRE WALL PENETRATIONS (TYPICAL).
- ⑫ - VRF SYSTEM CONDENSATE DRAIN PIPING SYSTEM ROUTED ABOVE NEW SUSPENDED CEILING. REFER TO DETAILS ON SHEET M.3.
- ⑬ - ROUTE UNDER WINDOW AND CONNECT TO NEW SANITARY SEWER PIPING AT TOP OF PIPE. TRANSITION AS REQUIRED.
- ⑭ - CONNECT TO EXISTING HOT WATER PIPING IN HOT WATER HEATER ROOM. REFER TO DETAIL 5 ON SHEET P.4. INSULATE NEW DCW, DHW, AND DHWR PIPING IN ROOM.
- ⑮ - DOMESTIC HOT AND COLD WATER SUPPLY IN WALL CHASE DOWN AND TURN UNDER WINDOW TO RESPECTIVE CABINET FIXTURE.
- ⑯ - ROUTE NEW HOT AND COLD WATER SUPPLIES IN CABINET VOID AND TERMINATE UNDER SINK. PROVIDE NEW ANGLE STOPS.
- ⑰ - REMOVE EXISTING LOUVER SECTION AND REPLACE WITH TREATED WOOD FRAME AND "HARDI" BOARD. PENETRATE WALL WITH NEW PIPING. CAULK AND SEAL ALL PENETRATIONS.
- ⑱ - PROVIDE NEW 12X12 METAL HINGED ACCESS PANEL IN WALL AT SAME LOCATION. ACCESS DOOR BY GENERAL CONTRACTOR.

COORDINATE INSTALLATION WITH NEW MILLWORK WHERE APPLICABLE.

- ⑲ - PROVIDE NEW 12X12 METAL HINGED ACCESS PANEL IN WALL. COORDINATE LOCATION WITH NEW CONDITIONS. ACCESS DOOR BY GENERAL CONTRACTOR.
- ⑳ - ALL DOMESTIC WATER PIPING (HOT/COLD/HOT RETURN) EXPOSED TO WEATHER SHALL BE INSULATED WITH 1 INCH ARMAFLEX TUBE INSULATION AND COVERED WITH VENTUR-CLAD JACKET SYSTEM. (REFER TO SPECIFICATIONS). INSTALL GALVANIZED SHEET METAL SADDLES (12 INCH LONG MINIMUM AT ALL SUPPORTS, VERTICAL AND HORIZONTAL).
- ㉑ - ALL WORK IN THIS AREA SHALL BE PART OF (ALTERNATE NO.2).









## SYMBOL SCHEDULE

(APPLIES TO ALL SHEETS)

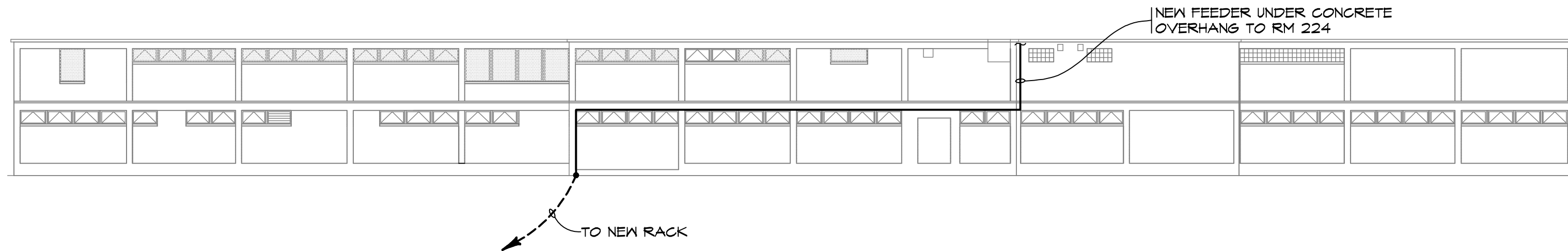
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" AFF IVORY IN COLOR, UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNTED, IVORY IN COLOR, UNLESS OTHERWISE NOTED.
	QUADRUPLEX OUTLET NEMA 5-20R MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
	SPECIAL PURPOSE RECEPTACLE, AS NOTED. VERIFY RECEPTACLE TYPE WITH EQUIPMENT.
	COMPUTER OUTLET 18" AFF UNLESS OTHERWISE NOTED STUB AND TURN INTO ACCESSIBLE CEILING WITH 1" C. TYPICAL.
	PANELBOARD FLUSH MTD UNLESS INDICATED OTHERWISE.
	1/2" AT 18" AFF (UNLESS OTHERWISE NOTED) TO ACCESSIBLE CEILING WITH SINGLE GANG J-BOX, BLANK COVER PLATE AND FULL STRINGS.
	ELECTRIC MOTOR.
	DISCONNECT SWITCH.
	LIGHTING FIXTURE, AS NOTED.
	STRIP LIGHT
	FLUSH MTD LIGHTING FIXTURE, AS NOTED.
	EXIT LIGHT
	EMERGENCY LIGHT
	CEILING MTD EMERGENCY LIGHT
	TOGGLE SWITCH, MTD. 46" AFF TO CENTER
	THREE-WAY SWITCH, MTD. 46" AFF TO CENTER
	DIMMER SWITCH.
	MOTOR RATED TOGGLE SWITCH WITH THERMAL PROTECTION.
	SWITCH WITH PILOT LIGHT
	OCCUPANCY SENSOR SWITCH.
	CEILING MTD. OCCUPANCY SENSOR AND ASSOCIATED SWITCH PACK.
	INDIVIDUAL CIRCUIT RUN DIRECTLY TO PANEL FROM THIS POINT. (DO NOT COMBINE HOMERUNS).
	CONDUIT CONCEALED IN WALL OR CEILING.
	CONDUIT RUN BELOW FLOOR OR SLAB.
	COUNTERTOP, MTD. 4" CL ABOVE COUNTER BACKSPLASH. MOUNTED HORIZONTALLY.
	WATERPROOF
	GROUND FAULT CIRCUIT INTERRUPTER WEATHER RESISTANT TYPE DEVICE WHERE LOCATED IN DAMP OR WET LOCATIONS.
	FUSED DISCONNECT SWITCH
	VERIFY ON JOB.
	COPPER
	ABOVE FINISHED FLOOR.
	NON-FUSED SWITCH.
	MOUNTED
	ISOLATED GROUND DEVICE.
	TYPICAL
	RIGID GALVANIZED STEEL
	WIREWAY WITH INDIVIDUAL DISCONNECTS.
	KEYPAD ROUGH-IN. PROVIDE 3/4" C WITH FULL STRING TO ABOVE SUSPENDED CEILING. MOUNT BOX AT 48" AFF.
	ELECTRIC STRIKE PROVIDE 120V TO DEVICE. CONNECT TO NEARBY RECEPTACLE CIRCUIT.
	SWITCH PACK COMPATIBLE WITH OCCUPANCY SENSOR.
	MOTORIZED DAMPER. PROVIDE 120V TO DEVICE. CONNECT TO NEARBY RECEPTACLE CIRCUIT.
	FUTURE OWNER PROVIDED WIRELESS ACCESS POINT. NO SCOPE FOR CONTRACTOR. FOR REFERENCE ONLY.

NOT ALL SYMBOLS APPLY TO EVERY PROJECT. ALL DIMENSIONS TO MIDDLE OF DEVICE, UNLESS INDICATED OTHERWISE ON FLOOR PLAN.

## GENERAL NOTES:

(APPLIES TO ALL SHEETS)

1. ALL CONDUCTORS SHALL BE COPPER.
2. ALL WIRING SHALL BE IN CONDUIT, UNLESS SPECIFICALLY INDICATED OTHERWISE.
3. NO MORE THAN THREE PHASE (HOT) CONDUCTORS SHALL BE RUN IN A SINGLE RACEWAY. WHERE MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE IN A SINGLE RACEWAY (PHASE PLUS NEUTRALS), THESE CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH NEC TABLE 310.15 (B) (2) (a).
4. MAXIMUM LENGTH OF FIXTURE WHIPS SHALL BE 6'-0".
5. MC CABLE IS NOT AN APPROVED WIRING METHOD.
6. FVC CONDUIT SHALL NOT BE USED ABOVE GRADE. TRANSITION FROM FVC TO RIGID 6" BELOW SLAB. PENETRATE SLAB WITH RIGID CONDUIT A MINIMUM OF 3".
7. NO CONDUIT SHALL BE RUN IN SLABS.
8. CONTRACTOR SHALL HANG ALL FIXTURES FROM STRUCTURE WITH MINIMUM OF TWO HANGERS.
9. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO EXAMINE EXISTING CONDITIONS. SAME SHALL BE CONSIDERED IN BID. CONTRACTOR SHALL INFORM THIS OFFICE PRIOR TO LAST ADDENDUM IN THE EVENT THAT EXISTING CONDITIONS HINDER WORK CALLED FOR ON DRAWINGS.
10. CONTRACTOR SHALL CUT AND PATCH OR BORE UNDER ALL EXISTING SIDEWALKS, DRIVEWAYS, ETC., AS NEEDED FOR NEW CONDUIT INSTALLATION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL BREAKER SIZES WITH ACTUAL MECHANICAL EQUIPMENT BEING INSTALLED. DO NOT REDUCE CONDUIT AND CONDUCTOR SIZES FOR MECHANICAL EQUIPMENT ACTUALLY BEING INSTALLED.
12. ALL EMPTY CONDUITS SHALL INCLUDE FULLSTRING FOR FUTURE.
13. CONTRACTOR TO USE MYERS HUB CONNECTORS AT ALL EXTERIOR PANELBOARDS, DISCONNECTS, CABINETS, JUNCTION BOXES, TROUGHS, ETC. PENETRATIONS (INCLUDING SIDE PENETRATIONS).
14. CONTRACTOR SHALL CONTACT ALL UTILITIES PRIOR TO BID AND OBTAIN ANY CHARGES FOR SERVICES OUTLINED. ALL COST SHALL BE INCLUDED IN BID.
15. PLANS AND SPECIFICATIONS SHALL BE CONSIDERED MINIMUM STANDARDS.
16. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUND CONDUCTOR IN ADDITION TO PHASE AND NEUTRAL CONDUCTORS INDICATED ON PLANS AND IN PANEL SCHEDULES.
17. ALL CONDUIT ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED STEEL.
18. NON-METALLIC FLEXIBLE CONDUIT IS NOT AN APPROVED WIRING METHOD.
19. ALL SWITCHES AND RECEPTACLES SHALL BE RATED 20 AMPS MINIMUM.
20. MINIMUM CONDUIT SIZE SHALL BE 1/2".
21. MINIMUM WIRE SIZE SHALL BE #12.
22. ALL ELECTRICAL WORK SHALL BE DONE BY QUALIFIED LICENSED ELECTRICIANS.
23. DO NOT COMBINE HOMERUNS. MULTIPLE HOTS IN A SINGLE JUNCTION BOX, OR DEVICE SHALL BE ON A SIMULTANEOUS DISCONNECTING HANDLE TIE OR COMMON TRIP BREAKER.
24. CIRCUIT DIRECTORY: EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OF USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS SHALL BE DESCRIBED ACCORDINGLY AS PER NEC SECTION 408.4.
25. CONTRACTOR SHALL REVIEW THE ENTIRE SPECIFICATIONS/ PROJECT FOR ADDITIONAL REQUIREMENTS DETAILED IN OTHER DIVISIONS SECTIONS (INCLUDING BUT NOT LIMITED TO FOOD SERVICE, DOOR HARDWARE, SEWER TREATMENT AND DIVISION 15).
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO EXCAVATION AND SHALL BE LIABLE FOR ANY DAMAGES CAUSED. ALL REPAIRS SHALL BE COMPLETED BY THE APPROPRIATE LICENSED CONTRACTOR.
27. CONTRACTOR TO PROVIDE PERMANENT MARKING OF PHASE ROTATION AT MAIN SERVICE INTERIOR PANEL.

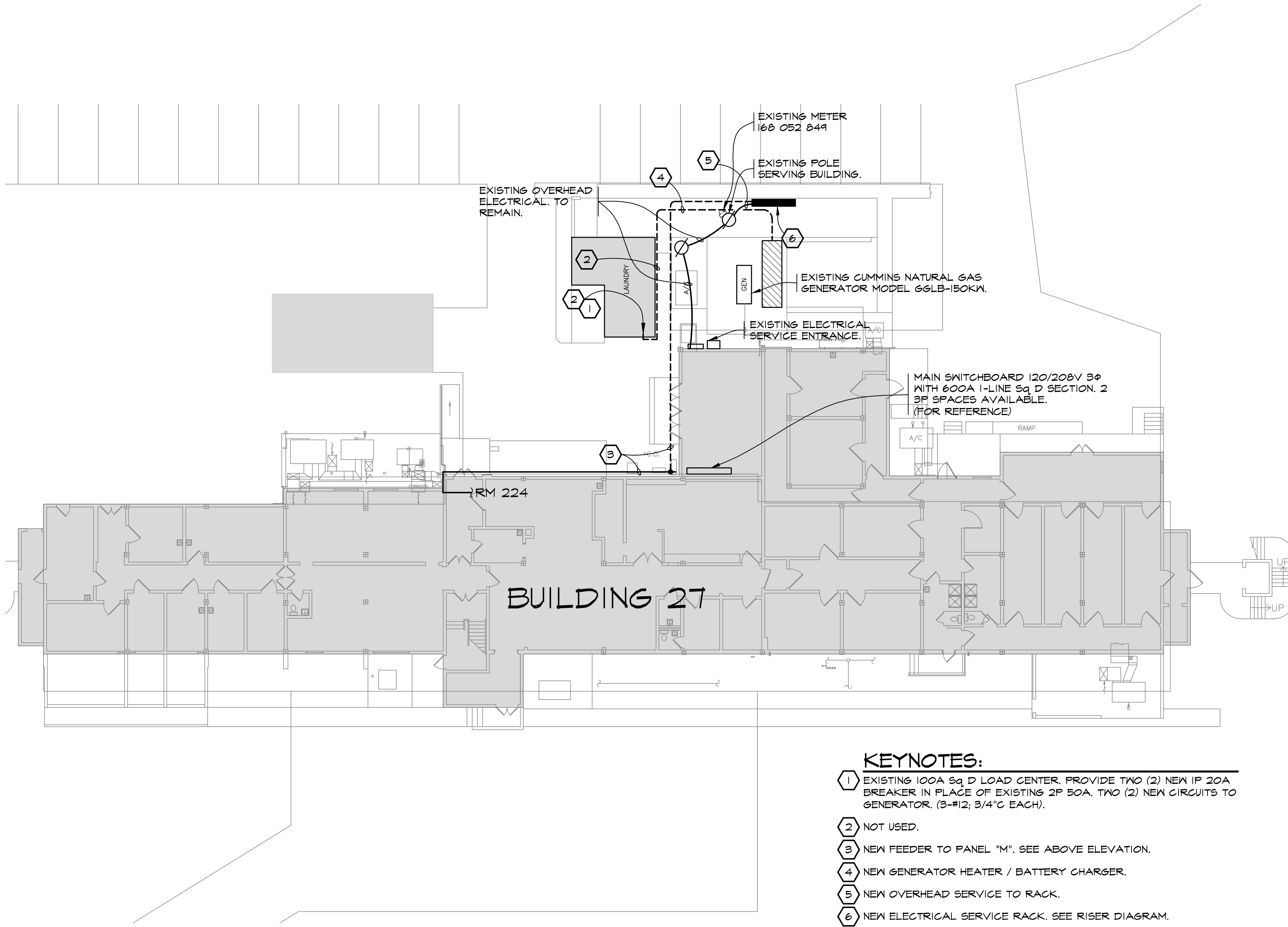


## ELEVATION SITE PLAN

FIELD VERIFY ALL DIMENSIONS

SCALE: 1/16"=1'-0"

0 8 16 32 FT



## KEYNOTES:

- 1 EXISTING 100A Sq D LOAD CENTER. PROVIDE TWO (2) NEW 1P 20A BREAKER IN PLACE OF EXISTING 2P 50A. TWO (2) NEW CIRCUITS TO GENERATOR. (3-#12; 3/4" C EACH).
- 2 NOT USED.
- 3 NEW FEEDER TO PANEL "M". SEE ABOVE ELEVATION.
- 4 NEW GENERATOR HEATER / BATTERY CHARGER.
- 5 NEW OVERHEAD SERVICE TO RACK.
- 6 NEW ELECTRICAL SERVICE RACK. SEE RISER DIAGRAM.

## ELECTRICAL SITE PLAN

FIELD VERIFY ALL DIMENSIONS

SCALE: 1/16"=1'-0"

0 8 16 32 FT

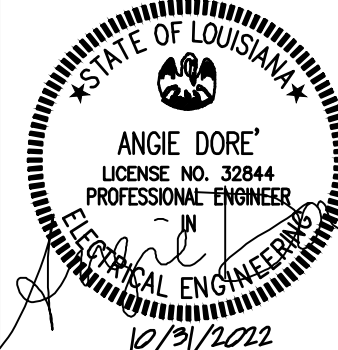
ARCHITECTURE INTERIOR DESIGN

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PRIMATE RESEARCH LAB  
SECOND FLOOR RENOVATION 2020  
UL PHYSICAL PLANT  
THE UNIVERSITY OF LOUISIANA AT LAFAYETTE  
P.O. BOX 4320  
LAFAYETTE, LOUISIANA 70504

project no. 2020.007.00  
date OCTOBER 2022  
designed by AD  
drawn by DL  
checked by AD  
revised



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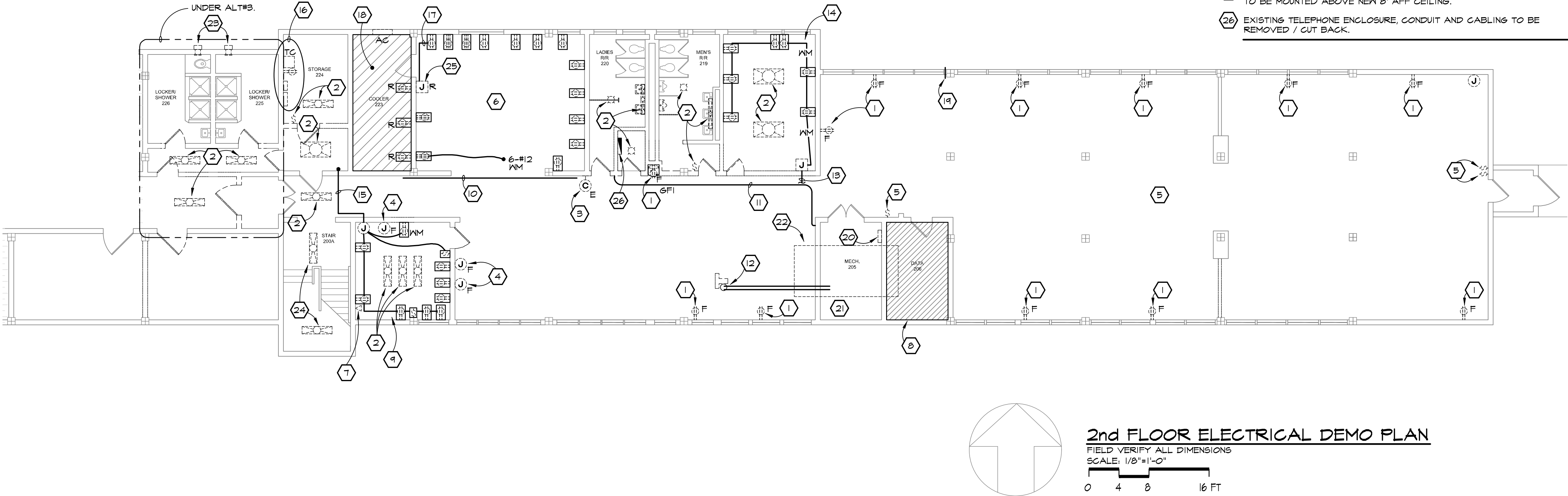
STORAGE ROOM 224  
NOT TO SCALE

DEMOLITION SYMBOL SCHEDULE (UNLESS NOTED OTHERWISE)	
	FLUSH MOUNTED EXISTING DEVICE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING SURFACE MOUNTED JUNCTION BOX TO BE REMOVED.
	EXISTING LIGHT SWITCH TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING SURFACE MOUNTED SWITCH TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING FLUSH MOUNTED JUNCTION BOX TO REMAIN ACCESSIBLE.
	EXISTING SURFACE MOUNTED DEVICE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING DEVICE TO REMAIN.
	EXISTING LIGHTING FIXTURE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING LIGHT FIXTURE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING LIGHT FIXTURE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING SURFACE MOUNTED LIGHTING TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING CLOCK TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING SURFACE MOUNTED JUNCTION BOX TO BE REMOVED.
	EXISTING SURFACE MOUNTED DEVICE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
	EXISTING J-BOX AND WIRING TO REMAIN.

- GENERAL ELECTRICAL DEMOLITION NOTES:**
1. THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO COMPLETE DEMOLITION. REMOVAL AND / OR SALVAGE ITEMS SHOWN ON THE DRAWINGS.
  2. THE GENERAL CONTRACTOR SHALL PROTECT THE OWNERS' PROPERTY INCLUDING, BUT NOT LIMITED TO DATA EQUIPMENT AND ELECTRICAL EQUIPMENT.
  3. ANY DAMAGE THAT OCCURS AS A RESULT OF THE WORK SHALL BE REPAIRED TO A LIKE NEW CONDITION AT CONTRACTORS EXPENSE.
  4. EXACT DIMENSIONS OF DEMOLITION AND RECONSTRUCTION SHALL BE COORDINATED ON JOB PRIOR TO DEMOLITION WORK.
  5. OWNER HAS FIRST RIGHT OF REFUSAL TO ALL ITEMS DEMOLISHED. ITEMS OF SALVAGEABLE VALUE TO THE OWNER SUCH AS BUT NOT LIMITED TO LIGHTING FIXTURES, DISCONNECTS, PANELS, SHALL BE REMOVED AND PROPERLY STORED ON SITE AS THE WORK PROGRESSES. COORDINATE, SALVAGE AND STORAGE WITH USER.
  6. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
  7. ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT STRUCTURE, OTHER FACILITIES AND PERSONS IN ACCORDANCE WITH OSHA STANDARDS.
  8. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AS DIRECTED BY THE OWNER. PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT STRUCTURES BY DEMOLITION OPERATIONS AT NO COST TO THE OWNER.
  9. IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY THE CONSTRUCTION TYPE (I.E. WALL TO CEILING, DECK OR FIRE WALLS) OF THE EXISTING WALLS TO BE REMOVED.
  10. PRIOR TO DEMOLITION, THE CONTRACTOR IS TO NOTIFY THE OWNER / ARCHITECT IN WRITING A MINIMUM OF 2 WEEKS IN ADVANCE OF THE AREAS THAT ARE NEEDED FOR DEMOLITION.
  11. PRIOR TO DEMOLITION, THE CONTRACTOR / ARCHITECT / OWNER IS TO WALK THE EXISTING AREA THAT IS TO HAVE DEMOLITION WORK TAKE PLACE TO VERIFY THE EXISTING CONDITIONS OF THAT AREA.
  12. ALL CONDITIONS AND DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND MUST BE FIELD VERIFIED AT THE SITE. UPON COMPLETION OF DEMOLITION, ALL CONDITIONS AND DIMENSIONS ARE TO BE CHECKED FOR VARIANCES. ANY UNNOTED EXISTING CONDITIONS WHICH MAY CONFLICT WITH THE PROPOSED NEW WORK AND MAY REQUIRE MODIFICATION, RELOCATION AND OR REMOVAL SHALL BE IDENTIFIED AND REPORTED TO THE OWNER AND ARCHITECT, IN WRITING AT ONCE.

**ELECTRICAL DEMO PLAN KEYNOTES:**

- 1 EXISTING FLUSH MOUNTED DEVICE TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
- 2 EXISTING LIGHTING AND ASSOCIATED LIGHTING SWITCH THIS ROOM TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT. SEE LIGHTING PLAN FOR NEW LIGHTING REQUIREMENTS.
- 3 EXISTING WALL MOUNTED CLOCK TO BE REMOVED.
- 4 EXISTING FLUSH JUNCTION BOX TO REMAIN. ADJUST TO SIT FLUSH WITH NEW FURRED OUT WALL. BOX TO REMAIN ACCESSIBLE.
- 5 ALL LIGHTING THIS SPACE PREVIOUSLY REMOVED. CONTRACTOR TO CUT BACK WIRING AND REMOVE LIGHTING SWITCH AT WALL. PROVIDE NEW BLANK COVER PLATE.
- 6 ALL DEVICES THIS ROOM WIREMOLD BOXES/WIREMOLD RACEWAYS TO BE REMOVED INCLUDING WIRING. ONLY EXCEPTION EXISTING DEVICES WHICH CONTROL COOLER AT DOOR. ADJUST COOLER CONTROL DEVICES TO ACCOMMODATE NEW FURRED OUT WALL AND NEW CEILING.
- 7 EXISTING DATA CABLE TO BE REMOVED. EXTEND BOX TO NEW FURRED OUT WALL AND PROVIDE NEW BLANK COVER PLATE.
- 8 ALL OPERATIONS/ FUNCTION OF RM 206 TO REMAIN ACTIVE DURING CONSTRUCTION. CONTRACTOR TO PROTECT DURING PROJECT.
- 9 ALL DEVICES ON WALL FED WITH SINGLE CHANNEL WIREMOLD THIS ROOM. ALL DEVICES, RACEWAYS/ WIRING TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
- 10 1/2" C WITH ABANDONED LOW VOLTAGE TO BE REMOVED.
- 11 CONDUIT WITH LOW VOLTAGE CABLES TO REMAIN.
- 12 CONDUIT TO 1st FLOOR WITH DATA CABLING TO 206.
- 13 120V WIRING CUT / REMOVE WIRING BACK TO SERVICE POINT.
- 14 ALL DEVICES ON WALL FED WITH SINGLE CHANNEL WIREMOLD THIS ROOM. ALL DEVICES, RACEWAYS / WIRING TO BE REMOVED. CUT BACK WIRING TO SERVICE POINT.
- 15 1 1/2" NON-METAL FLEX TO BE REMOVED.
- 16 SEE PICTURE ABOVE. THIS EQUIPMENT TO REMAIN.
- 17 EXISTING MC CABLE TO BE REMOVED.
- 18 ALL DEVICES ROOM 223 TO REMAIN. MAINTAIN EXISTING CIRCUITS. EXTEND WIRING AS NEEDED IF COMPROMISED RM 203 DEMO WORK.
- 19 ROMEX TO BE CUT BACK AND WALL PENETRATION TO BE SEALED.
- 20 EXISTING PANELBOARD TO REMAIN. PROVIDE NEW DIRECTORY.
- 21 LIGHTING THIS ROOM TO REMAIN. RECONNECT TO NEAREST NEW LIGHTING CIRCUIT. PROVIDE NEW BULBS IN ALL FIXTURES.
- 22 REMOVE ALL WIRING AND CONDUIT ASSOCIATED WITH EXISTING ROOFTOP UNIT. CUT BACK TO SERVICE POINT.
- 23 REMOVE ALL WIRING AND CONDUIT ASSOCIATED WITH EXISTING EXHAUST FANS. CUT BACK TO SERVICE POINT.
- 24 EXISTING LIGHT FIXTURES TO BE REMOVED. CIRCUIT TO REMAIN FOR INSTALLATION OF NEW LIGHT FIXTURES. SEE SHEET E3.1 FOR ADDITIONAL REQUIREMENTS.
- 25 EXISTING 12"x12" BOX MOUNTED AT 7'-6" AFF CONTRACTOR TO ADJUST TO BE MOUNTED ABOVE NEW 8' AFF CEILING.
- 26 EXISTING TELEPHONE ENCLOSURE, CONDUIT AND CABLING TO BE REMOVED / CUT BACK.

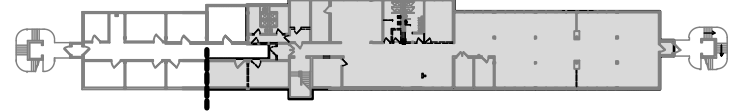


**2nd FLOOR ELECTRICAL DEMO PLAN**

FIELD VERIFY ALL DIMENSIONS

SCALE: 1/8"=1'-0"

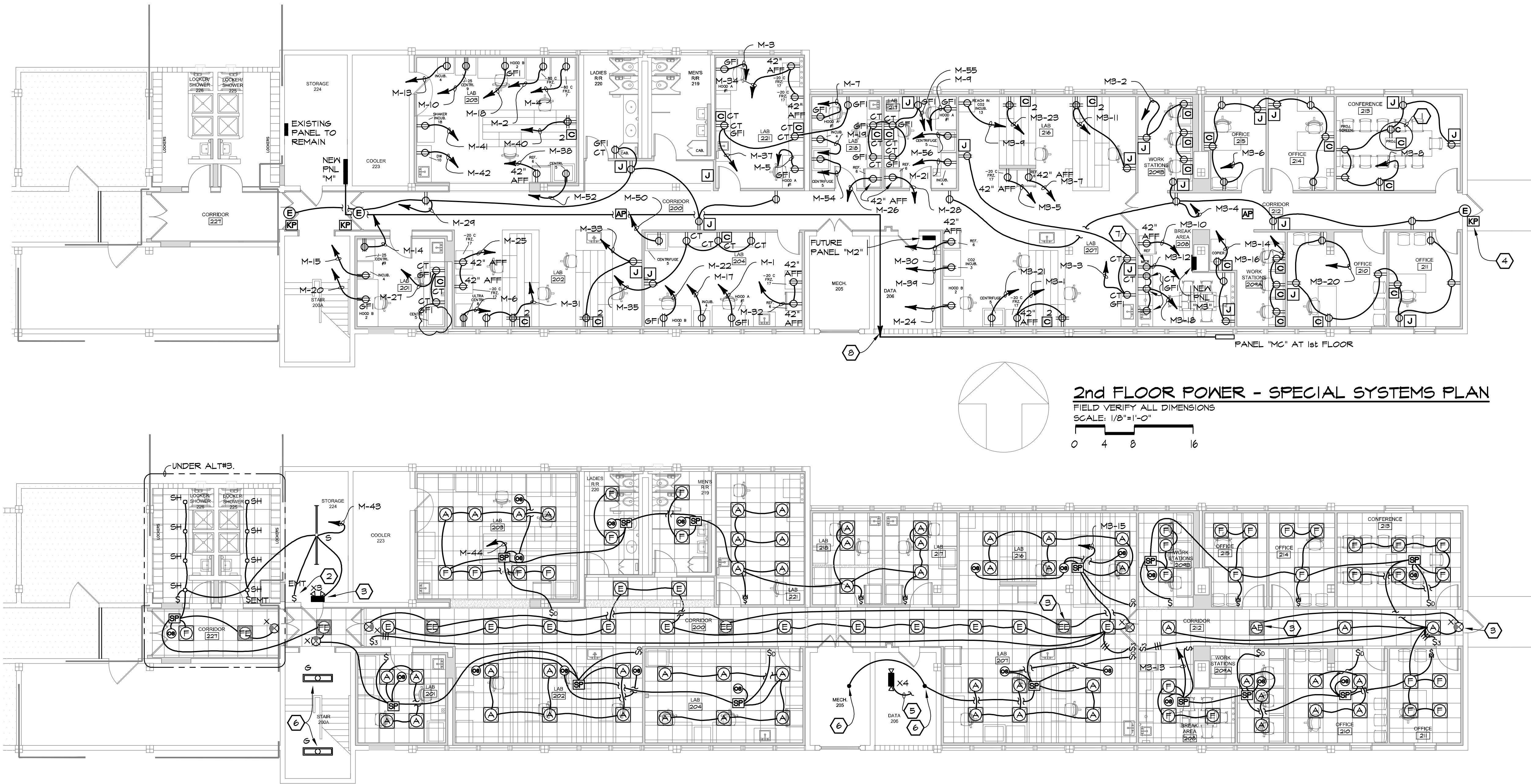
0 4 8 16 FT



KEYPLAN  
NOT TO SCALE



PA\Projects\202054\elec\202054 E3.1 2nd Floor Lighting-Power- Special Systems Plan.dwg, 12/7/2022 5:35:26 PM



## 2nd FLOOR POWER - SPECIAL SYSTEMS PLAN

FIELD VERIFY ALL DIMENSIONS

SCALE: 1/8"=1'-0"

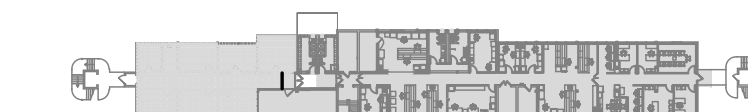
0 4 8 16

## 2nd FLOOR LIGHTING PLAN

FIELD VERIFY ALL DIMENSIONS

SCALE: 1/8"=1'-0"

0 4 8 16



## KEYPLAN

NOT TO SCALE

## FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	LAMP/WATT	DESCRIPTION	REMARKS
A	LITHONIA	CPANL 2X2 24/33/44LM 40K-44LM	LED 39W	2'x2' FLAT PANEL	1
AE	LITHONIA	SAME AS "A" EXCEPT WITH 90 MINUTE BATTERY	LED 39W	2'x2' FLAT PANEL	1
E	LITHONIA	CPANL 2X2 24/33/44LM 40K-24LM	LED 19W	2'x2' FLAT PANEL	3
EE	LITHONIA	SAME AS "E" EXCEPT WITH 90 MINUTE BATTERY	LED 19W	2'x2' FLAT PANEL	3
F	LITHONIA	CPANL 2X2 24/33/44LM 40K-33LM	LED 26W	2'x2' FLAT PANEL	2
FE	LITHONIA	SAME AS "F" EXCEPT WITH 90 MINUTE BATTERY	LED 26W	2'x2' FLAT PANEL	2
G	LITHONIA	EPANL 1x4 4000LM 80CRI 40K MINIO 2T MVOLT E10NCP 1X45MKSH	LED 37W	1'x4' IV 90 MIN BATTERY	4
S	LITHONIA	CLX L96 8000LM SEF RDL MVOLT 62IO 40K 80CRI	LED 52W	8' STRIP	
SH	LITHONIA	EVO65H 40/15 DFF SMO MVOLT EZIO	LED 20W	SHOWER LIGHT	
X	LITHONIA	LE 5 I R EL N	LED	EXIT	
X3	LITHONIA	ELM2L	LED	EMERGENCY FLOOD	
X4	LITHONIA	ELM2L	LED	EMERGENCY FLOOD	CEILING MTD

## REMARKS

1. SET FIXTURE TO 4400LM OUTPUT PRIOR TO INSTALLATION.
2. SET FIXTURE TO 3300LM OUTPUT PRIOR TO INSTALLATION.
3. SET FIXTURE TO 2400LM OUTPUT PRIOR TO INSTALLATION.
4. SET FIXTURE TO 4000LM OUTPUT PRIOR TO INSTALLATION.

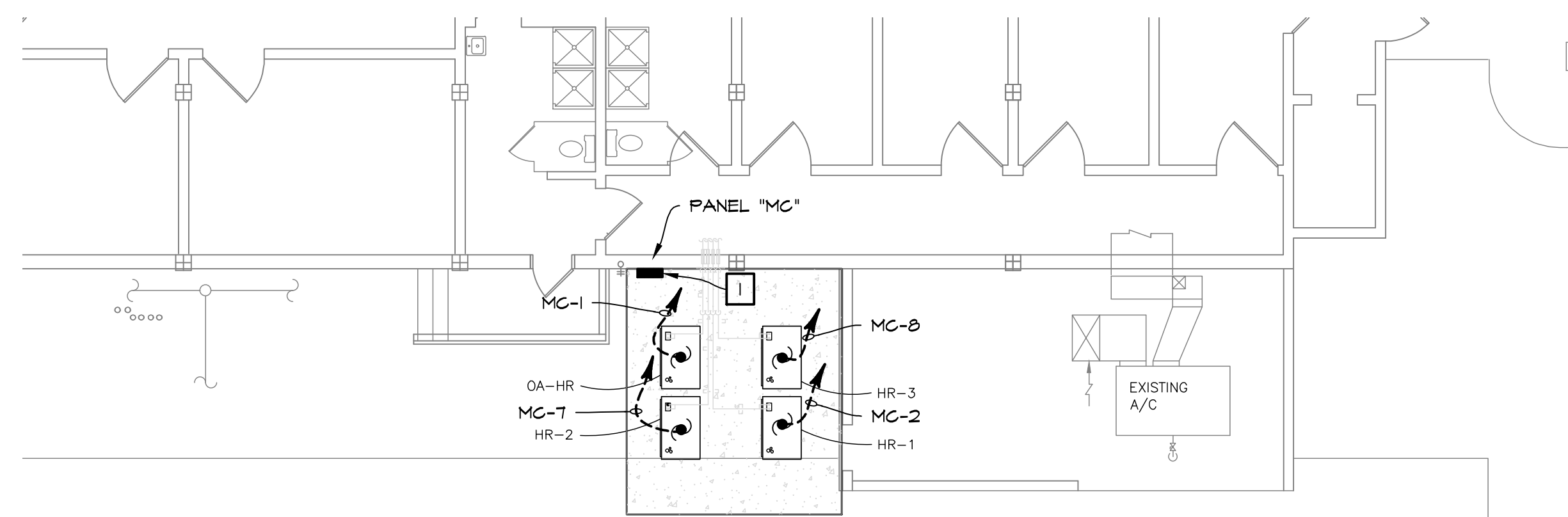
## NOTES

1. ALL FIXTURES ACCESSORIES NEEDED FOR PROPER INSTALLATION SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. EXACT PLACEMENT OF ALL EXTERIOR LIGHTING FIXTURES TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL.
3. ANY FIXTURE AIMING SHALL BE AS PER ENGINEER IN FIELD.
4. CONTRACTOR TO PROVIDE AND INSTALL ANY AND ALL LOW VOLTAGE CONTROLS REQUIRED FOR DIMMING AND / OR OCCUPANCY SENSORS.

## ELECTRICAL PLAN KEYNOTES:

1. DEVICES MOUNTED AT CEILING FOR PROJECTOR.
2. PROVIDE SWITCH IN SURFACE MOUNT EMT BOX WITH 1/2" C.
3. UNSWITCHED TYPICAL.
4. RISE UP ON INTERIOR WALL TO ABOVE CEILING WITH CONDUIT.
5. CONNECT TO UNSWITCHED PART OF LIGHTING CIRCUIT THIS ROOM. EXISTING LIGHTING TO REMAIN THIS ROOM.
6. RECONNECT TO EXISTING LIGHTING THIS ROOM.
7. VERIFY LOCATION PRIOR TO ROUGH-IN.
8. PENETRATE AT 12" AFF TO EXTERIOR.

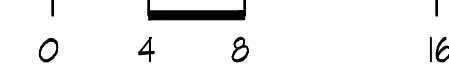




1st FLOOR PARTIAL  
POWER PLAN AREA A

FIELD VERIFY ALL DIMENSIONS  
SCALE: 1/8"=1'-0"

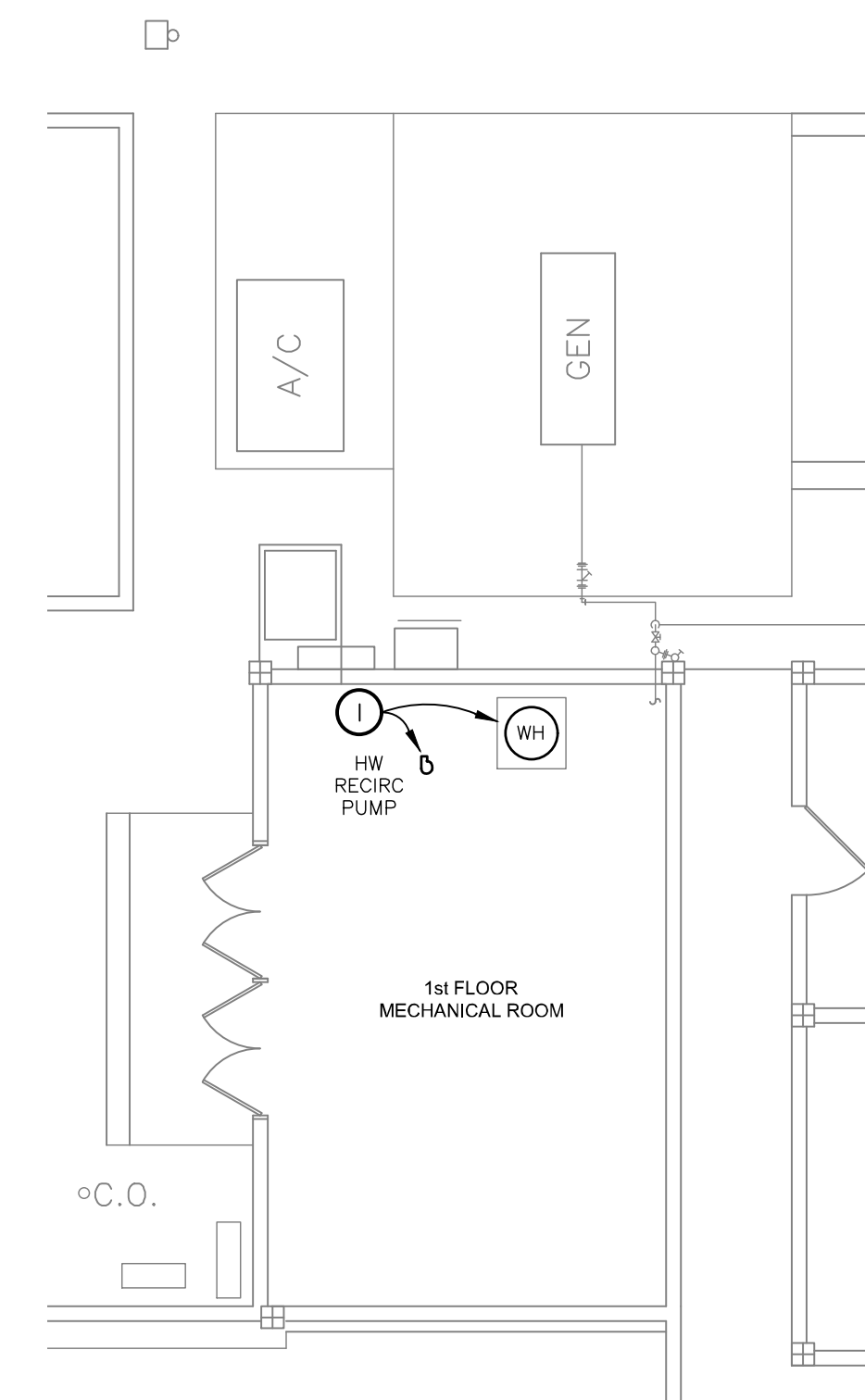
SCALE: 1/8"=1'-0"



1st FLOOR PARTIAL  
POWER PLAN AREA A KEYNOTES:

1 MAINTAIN WORKING CLEARANCES (3' MIN).

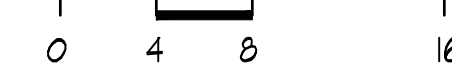
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1st FLOOR PARTIAL  
POWER PLAN AREA B

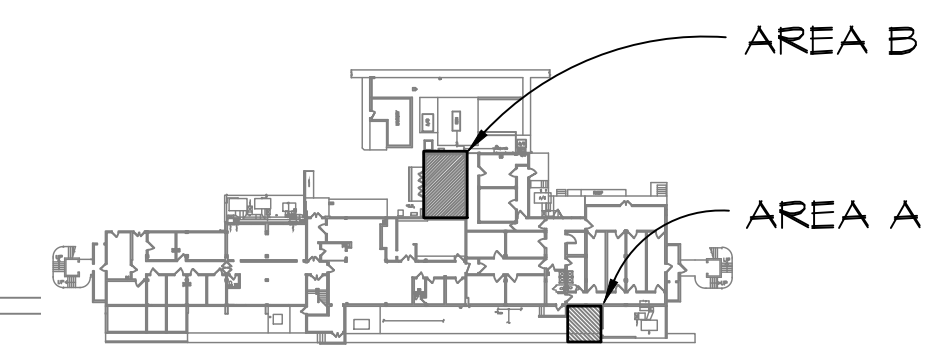
FIELD VERIFY ALL DIMENSIONS  
SCALE: 1/8"=1'-0"

SCALE: 1/8"=1'-0"



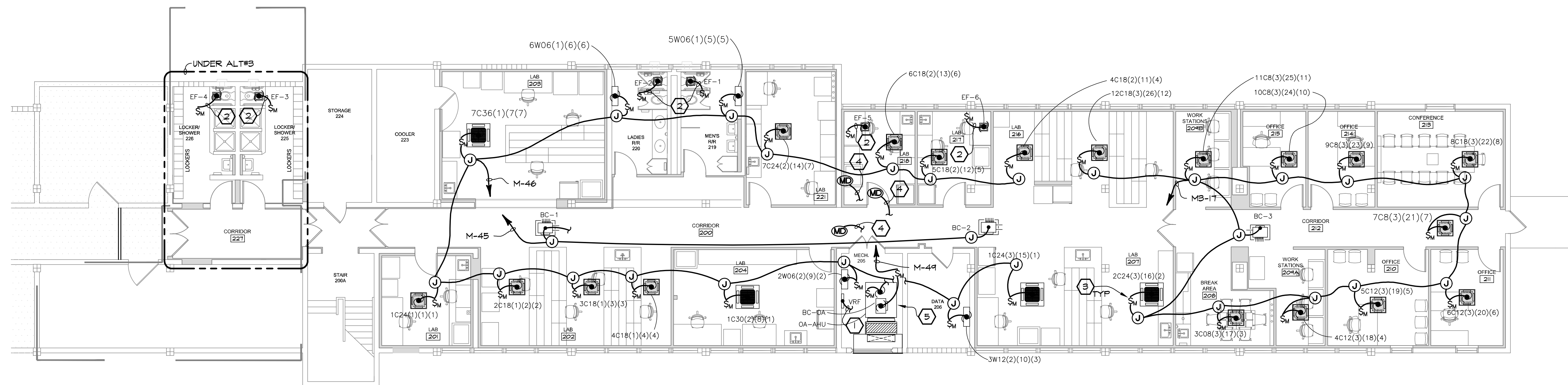
1st FLOOR PARTIAL  
POWER PLAN AREA B KEYNOTES:

① CONNECT NEW CIRC PUMP TO NEARBY 120V.



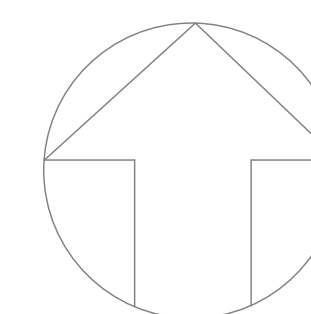
KEYPLAN 1st FLOOR

NOT TO SCALE



2nd FLOOR PARTIAL  
POWER PLAN KEYNOTES:

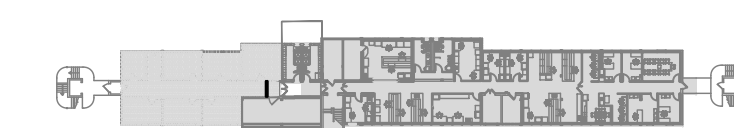
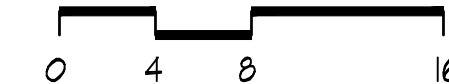
- ① 120V TO NEW CONTROLLER (CIRCUIT M-55).
- ② CIRCUIT WITH LIGHTING CIRCUIT THIS SPACE. CONTROLS BY MECH CONTRACTOR.
- ③ MOTOR RATED DISCONNECT TOGGLE SWITCH AT EACH UNIT. TYPICAL.
- ④ CONNECT 120V FROM NEARBY CONVENIENCE POWER RECEPTACLE TO DAMPER IF MOTORIZED.
- ⑤ 208V TO BOTH BC CONTROLLERS AND OUTSIDE AIR UNIT (PART OF CIRCUIT M-49).



## 2nd FLOOR PARTIAL POWER PLAN

FIELD VERIFY ALL DIMENSIONS

SCALE: 1/8"=1'-0"



KEYPLAN 2nd FLOOR

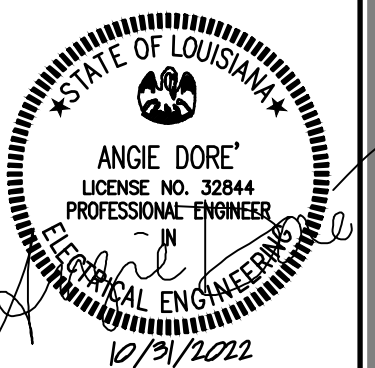
NOT TO SCALE

101 LA RUE FRANCE, STE. 205  
LAFAYETTE, LOUISIANA 70508  
337-237-2770 FAX 337-237-2772

**PRIMATE RESEARCH LAB  
SECOND FLOOR RENOVATION 2020**  
UL PHYSICAL PLANT  
THE UNIVERSITY OF LOUISIANA AT LAFAYETTE  
P.O. BOX 4320  
LAFAYETTE, LOUISIANA 70504

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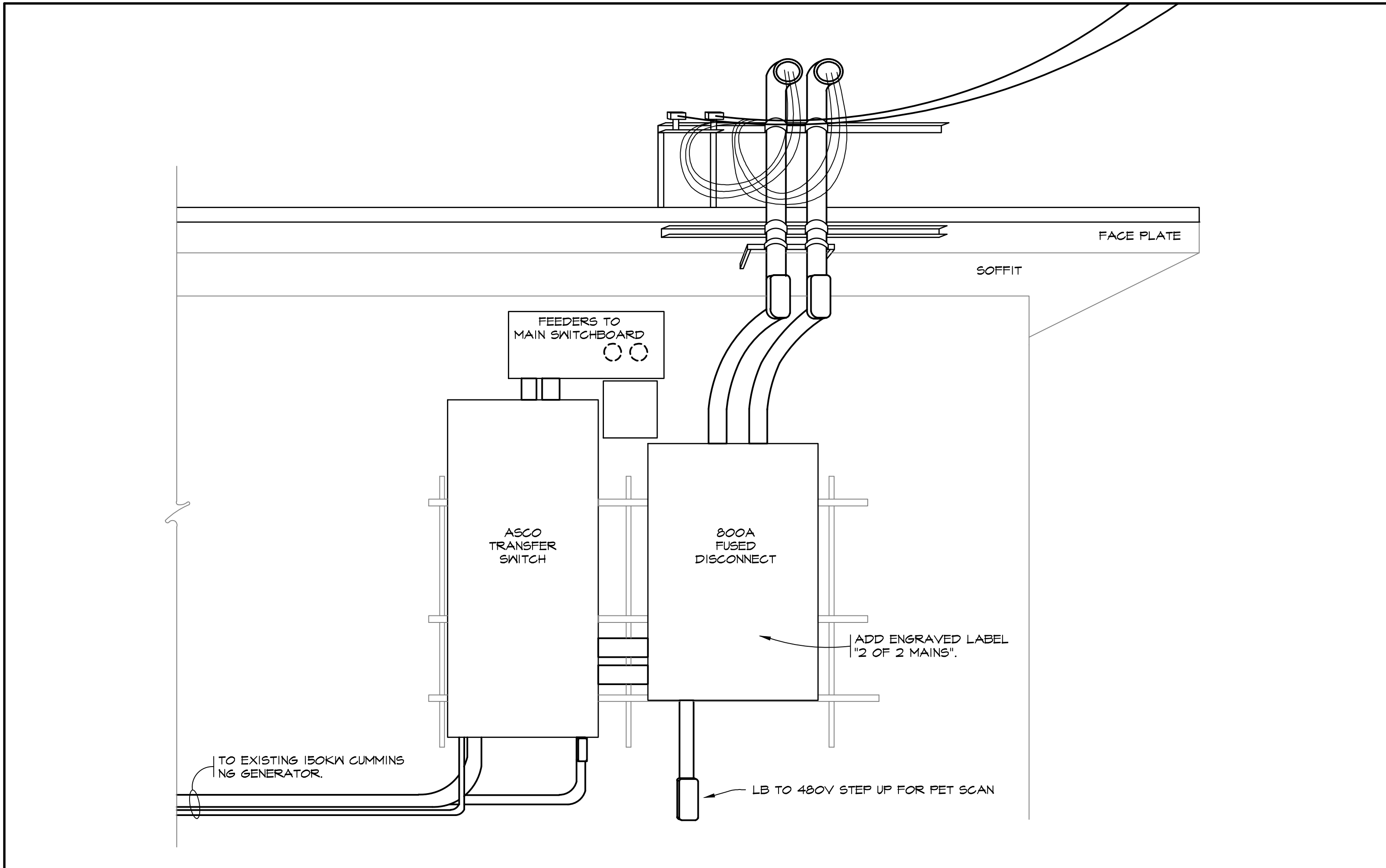
project no. 2020.007.00  
date OCTOBER 2022  
designed by AD  
drawn by DL  
checked by AD  
revised \_\_\_\_\_



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MBSB GROUP

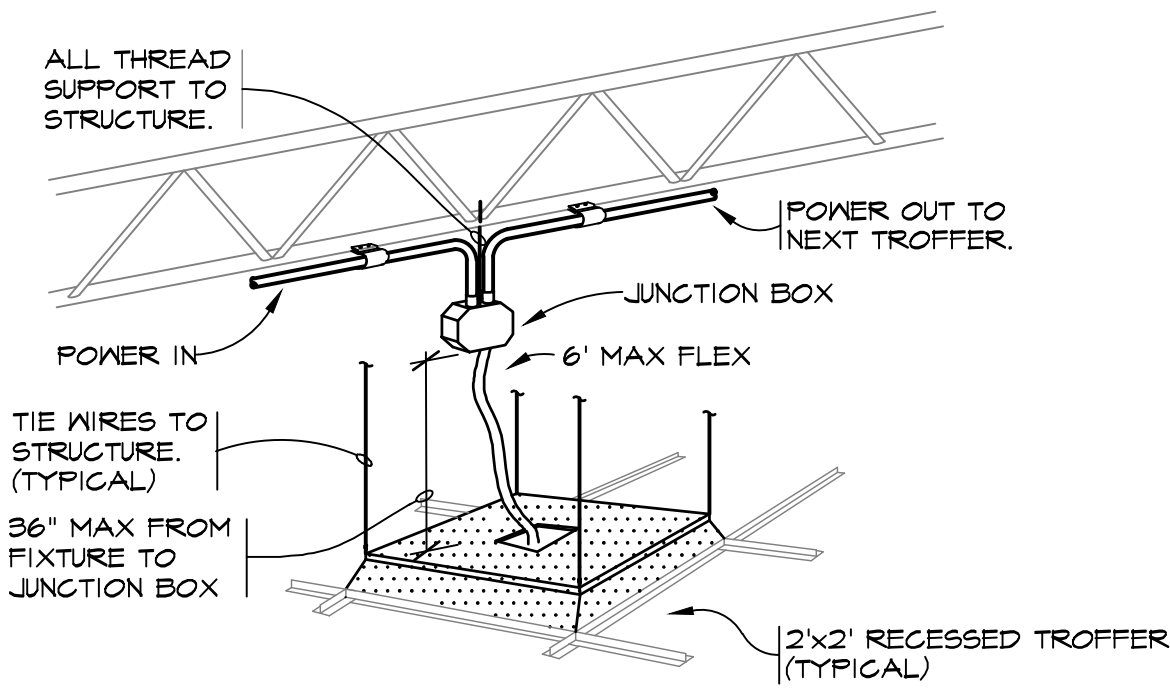
E3.2





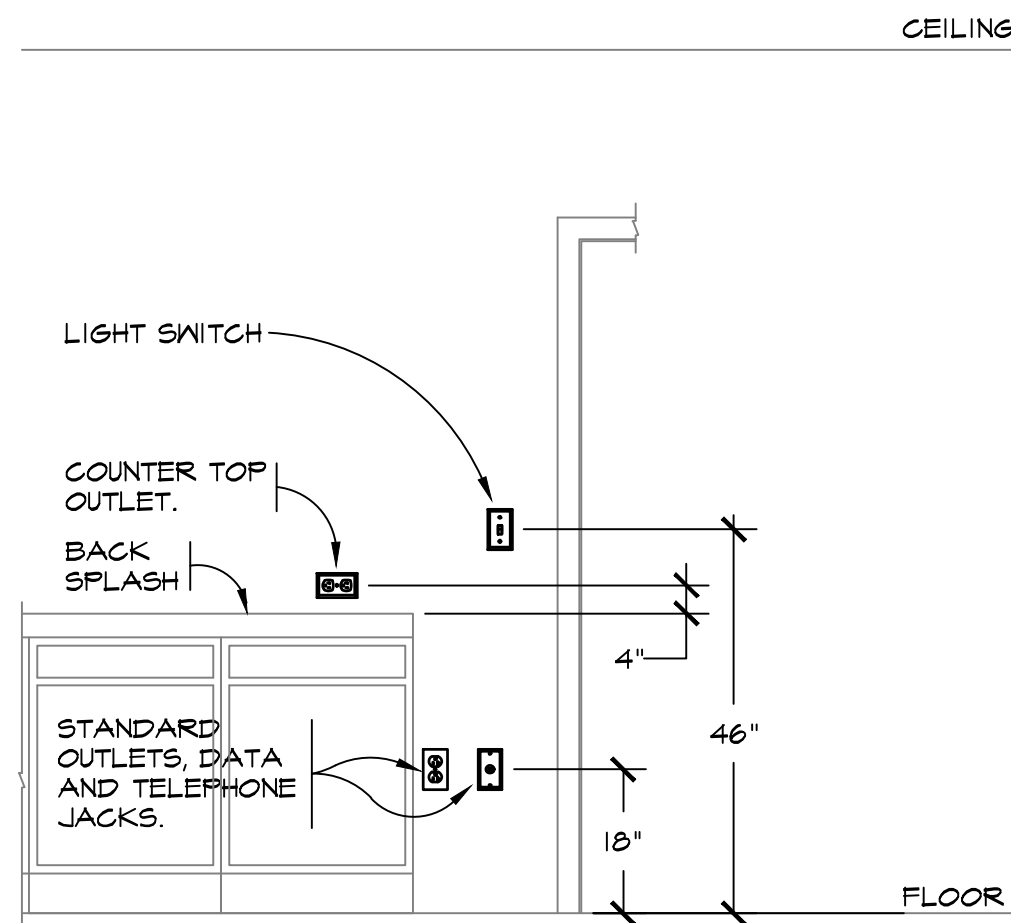
5

**EXISTING ELECTRICAL SERVICE (TO REMAIN)**  
NOT TO SCALE



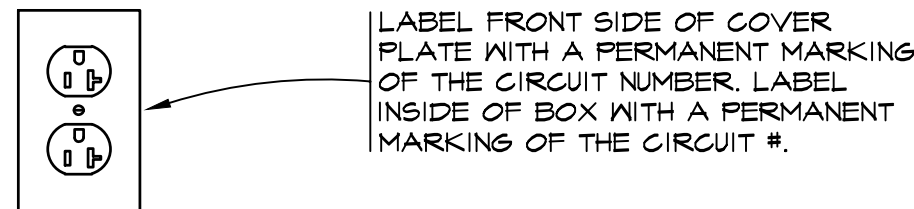
4

**FIXTURE MOUNTING DETAIL**  
NOT TO SCALE



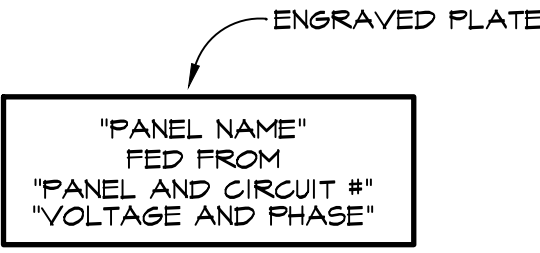
3

**REFERENCE HEIGHTS OF OUTLETS - SWITCHES**  
NOT TO SCALE



2

**RECEPTACLE DETAIL**  
NOT TO SCALE



1

**EQUIPMENT SIGNAGE** (REQUIRED AT ALL DISCONNECTS AND PANELS)  
NOT TO SCALE



PANELBOARD

"M3"

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE

MOUNTING: FLUSH

NEMA: 1

ULSE: YES    NO X

PROVIDE INTEGRAL MOUNTED SURGE PROTECTIVE DEVICE 80KA/PHASE

MAIN: 100A MB

AIC: 16,000

LOAD: 23 KW

DESCRIPTION	WIRE	GND	MIN COND	BRKR AMPS	CCT NO.					CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	DESCRIPTION
OUTLETS RM 207	#12	#12	1/2"	20A	1					2	20A	#12	#12	1/2"	OUTLETS RM 209B
OUTLETS RM 207/216	#12	#12	1/2"	20A	3					4	20A	#12	#12	1/2"	OUTLETS HALL 212
FREEZER RM 216	#12	#12	1/2"	20A	5					6	20A	#12	#12	1/2"	OUTLETS RM 214/215
REFRIG RM 216	#12	#12	1/2"	20A	7					8	20A	#12	#12	1/2"	OUTLETS RM 213
INC RM 216	#12	#12	1/2"	20A	9					10	20A	#12	#12	1/2"	REFRIG RM 208
OUTLETS RM 216	#12	#12	1/2"	20A	11					12	20A	#12	#12	1/2"	MICROWAVE RM 208
LIGHTING	#12	#12	1/2"	20A	13					14	20A	#12	#12	1/2"	OUTLETS/ COPIER RM 208/209A
LIGHTING	#12	#12	1/2"	20A	15					16	20A	#12	#12	1/2"	OUTLETS RM 209A
CASSETTES / BC-3	#12	#12	1/2"	15A	17					18	20A	#12	#12	1/2"	OUTLETS RM 208
					19					20	20A	#12	#12	1/2"	OUTLETS RM 210/211
CENTRIFUGE 5 RM 207	#12	#12	1/2"	20A	21					22	20A	--	--	--	SPARE
OUTLETS RM 216	#12	#12	1/2"	20A	23					24	20A	--	--	--	SPARE
SPARE	--	--	--	20A	25					26	20A	--	--	--	SPARE
SPARE	--	--	--	20A	27					28	20A	--	--	--	SPARE
SPARE	--	--	--	20A	29					30	20A	--	--	--	SPARE
SPARE	--	--	--	20A	31					32	20A	--	--	--	SPARE
SPARE	--	--	--	20A	33					34	20A	--	--	--	SPARE
SPARE	--	--	--	20A	35					36	20A	--	--	--	SPARE
SPARE	--	--	--	20A	37					38	20A	--	--	--	SPARE
SPARE	--	--	--	20A	39					40	20A	--	--	--	SPARE
SPARE	--	--	--	20A	41					42	20A	--	--	--	SPARE

PANELBOARD

"MC"

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE

MOUNTING: SURFACE

NEMA: 3R

ULSE: YES\_\_ NO X

MAIN: 200A MB

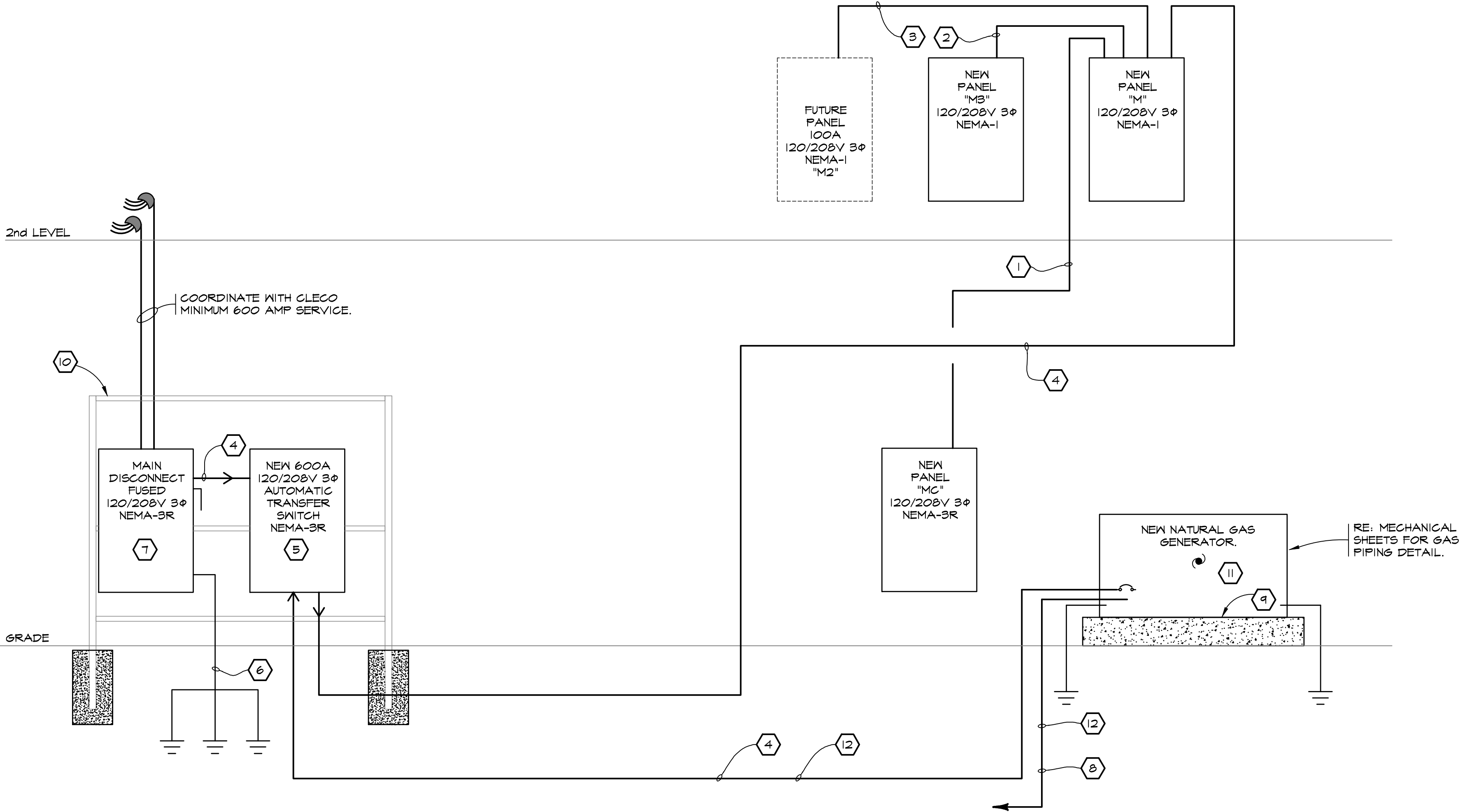
AIC: 16,000

LOAD: 57.3 KW

PROVIDE INTEGRAL MOUNTED SURGE PROTECTIVE DEVICE 80KA/PHASE

DESCRIPTION	WIRE	GND	MIN COND	BRKR AMPS	CCT NO.				CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	DESCRIPTION
OH-HR	3-#4	#8	1 1/4"	10A	1		2	60A	3-#4	#8	1 1/4"	HR-1		
					3		4							
					5		6							
HR-2	3-#4	#8	1 1/4"	60A	7		8	60A	3-#4	#8	1 1/4"	HR-3		
					9		10							
					11	12								
SPARE	3-#4	-	--	60A	13	14	60A	--	--	--	SPARE			
					15	16								
					17	18								

PANELBOARD		VOLTAGE: 120/208V, 3 PHASE, 4 WIRE				MAIN: 600A MB							
MOUNTING: SURFACE		PROVIDE INTEGRAL MOUNTED SURGE PROTECTIVE DEVICE 80KA/PHASE				AIC: 26,000							
NEMA: 1						LOAD: 149 KW							
ULSE: YES__ NO X													
DOUBLE SECTION													
DESCRIPTION	WIRE	GND	MIN COND	BRKR AMPS	CCT NO.			CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	DESCRIPTION
HOOD A RM 204	#12	#12	1/2"	20A	1			2	20A	#12	#12	1/2"	FREEZER RM 203
HOOD A RM 221	#12	#12	1/2"	20A	3			4	20A	#12	#12	1/2"	FREEZER RM 203
HOOD A RM 221	#12	#12	1/2"	20A	5			6	20A	#10	#12	1/2"	CENTRIFUGE RM 202
HOOD A RM 218	#12	#12	1/2"	20A	7			8					
HOOD A RM 217	#12	#12	1/2"	20A	9			10	30A	#10	#10	3/4"	CENTRIFUGE RM 203
HOOD A RM 216	#12	#12	1/2"	20A	11			12					
INCUB RM 203	#12	#12	1/2"	20A	13			14	30A	#10	#10	3/4"	CENTRIFUGE RM 201
INCUB RM 201	#12	#12	1/2"	20A	15			16					
INCUB RM 204	#12	#12	1/2"	20A	17			18	20A	#12	#12	1/2"	HOOD B RM 203
INCUB RM 218	#12	#12	1/2"	20A	19			20	20A	#12	#12	1/2"	HOOD B RM 201
INCUB RM 217	#12	#12	1/2"	20A	21			22	20A	#12	#12	1/2"	HOOD B RM 204
INCUB RM 216	#12	#12	1/2"	20A	23			24	20A	#12	#12	1/2"	HOOD B RM 207
FREEZERS RM 202	#12	#12	1/2"	20A	25			26	20A	#12	#12	1/2"	REFRIG RM 218
OUTLETS RM 203	#12	#12	1/2"	20A	27			28	20A	#12	#12	1/2"	REFRIG RM 217
HALL/ RR OUTLETS	#12	#12	1/2"	20A	29			30	20A	#12	#12	1/2"	REFRIG RM 207
OUTLETS LAB-RM 202	#12	#12	1/2"	20A	31			32	20A	#12	#12	1/2"	REFRIG RM 204
OUTLETS LAB-RM 202	#12	#12	1/2"	20A	33			34	20A	#12	#12	1/2"	FREEZER RM 221
OUTLETS LAB-RM 204	#12	#12	1/2"	20A	35			36	20A	#12	#12	1/2"	OUTLETS RM 222
OUTLETS LAB-RM 221	#12	#12	1/2"	20A	37			38	20A	#12	#12	1/2"	REFRIG RM 203
INCUB RM 207	#12	#12	1/2"	20A	39			40	20A	#12	#12	1/2"	OUTLETS LAB 203
SHAKER-RM 203	#12	#12	1/2"	20A	41			42	20A	#12	#12	1/2"	DISHWASHER RM 203
LIGHTING	#12	#12	1/2"	20A	43			44	20A	#12	#12	1/2"	LIGHTING
BC CONTROLLERS	#12	#12	1/2"	15A	45			46	15A	#12	#12	1/2"	CASSETTES
					47			48					
OA-BC	#12	#12	1/2"	15A	49			50	20A	#12	#12	1/2"	CENTRIFUGE 5 RM 204
					51			52	20A	#12	#12	1/2"	CENTRIFUGE 5 RM 203
VRF CONTROLLER	#12	#12	1/2"	20A	53			54	20A	#12	#12	1/2"	CENTRIFUGE 5 RM 218
OUTLETS RM 217	#12	#12	1/2"	20A	55			56	20A	#12	#12	1/2"	CENTRIFUGE 5 RM 217
SPARE	--	--	--	20A	57			58	20A	#12	#12	1/2"	CENTRIFUGE 5 RM 216
SPARE	--	--	--	20A	59			60	20A	--	--	--	SPARE
SPARE	--	--	--	20A	61			62	20A	--	--	--	SPARE
SPARE	--	--	--	20A	63			64	20A	--	--	--	SPARE
SPARE	--	--	--	20A	65			66	20A	--	--	--	SPARE
SPARE	--	--	--	20A	67			68	20A	--	--	--	SPARE
SPARE	--	--	--	20A	69			70	20A	--	--	--	SPARE
SPARE	--	--	--	20A	71			72	20A	--	--	--	SPARE
PANEL "M2"	SEE ELECTRICAL RISER			100A	73			74	20A	--	--	--	SPARE
					75			76	20A	--	--	--	SPARE
					77			78	20A	--	--	--	SPARE
PANEL "M3"	SEE ELECTRICAL RISER			100A	79			80	200A	SEE ELECTRICAL RISER			PANEL "MC"
					81			82					
					83			84					



### ELECTRICAL RISER NOTES:

- CONTRACTOR SHALL CONTACT UTILITY COMPANY PRIOR TO BID AND OBTAIN ANY CHARGES FOR SERVICES SHOWN. SAME SHALL BE IN BID.
- CONTRACTOR TO USE MYERS HUB CONNECTORS AT ALL EXTERIOR PANELBOARDS (DISCONNECTS, ETC) PENETRATIONS (INCLUDING SIDE PENETRATIONS).
- ALL CONDUCTORS SHALL BE COPPER.
- ALL WORK SHALL BE IN COMPLIANCE WITH NFPA TO NATIONAL ELECTRICAL CODE 2017 VERSION AND INSTALLATION DONE BY QUALIFIED LICENSED ELECTRICIAN.
- CONTRACTOR TO REFER TO DIV 26 SPECIFICATIONS FOR REQUIREMENTS ON TESTING, IR SCANS AND LOAD BALANCING REQUIREMENTS.
- CONTRACTOR TO PROVIDE PERMANENT MARKING OF PHASE ROTATION AT MAIN SERVICE INTERIOR PANEL.

### ELECTRICAL RISER KEYNOTES:

- 4-4/0, 1-#6G; 2 1/2"C.
- 4-#2, 1-#8G; 1 1/4"C.
- 1/2"C WITH FULLSTRING.
- 2 SETS OF 3"C WITH 4-350, 1-#1 IN EACH.
- PROVIDE AUTOMATIC TRANSFER SWITCH. (SERVICE ENTRANCE RATED).
- 2/0 CU TO THREE (3) 10"x3/4" GROUND ROD.
- LABEL WITH ENGRAVED PLATE "1 OF 2 MAINS".
- SEE SITE PLAN KEYNOTE 1 TWO (2) 120V 20A CIRCUITS TO ADJACENT BUILDING (3-#12; 3/4"C EACH).
- MOUNT TO EXISTING SLAB.
- 2" GALVANIZED PIPE RACK SET IN 24" CONCRETE FOUNDATION.
- OWNER PROVIDED AND OWNER INSTALLED GENERATOR. CONTRACTOR TO MAKE FINAL CONNECTIONS.

1 NEW ELECTRICAL RISER DIAGRAM  
NOT TO SCALE



February 1, 2023

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**ADDENDUM NO. 1**

**PROPOSAL FOR FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SUPERVISION, PERMITS, ETC. NECESSARY FOR THE RENOVATION OF BUILDING 27 2<sup>ND</sup> FLOOR AREA AT THE NEW IBERIA RESEARCH CENTER, LOCATED ON THE UL LAFAYETTE NEW IBERIA CAMPUS, NEW IBERIA, LOUISIANA.**

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**Due Thursday, March 2, 2023 2:00 PM Solicitation No. 23220**

The following is to be made part of the original specifications as though issued at the same time and shall be incorporated integrally therewith. This addendum shall be acknowledged on the BID FORM when submitted to the Purchasing Department prior to the bid due date/time.

---

**Item No. 1** - For drawings/plans associated with Solicitation File Number 23220, see Attachment B.

---

This is a public works bid. The addendum **MUST** be acknowledged with your bid on the BID FORM. For questions related to bidding these projects, please contact the UL Lafayette Purchasing Department at [bids@louisiana.edu](mailto:bids@louisiana.edu) or 337.482.2955.

Marie C. Frank, MPA, CPPB  
Assistant Vice President for Administration & Finance  
University of Louisiana at Lafayette  
Department of Purchasing